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SEQUENCE LISTING

<110> The Board of Trustees of the University of Arkansas
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Beard, John
Underwood, Lowell

<120> CA125 Gene and Its Use for Diagnostic and Therapeutic
Interventions

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Ser Thr Tyr Thr Leu Thr Val Glu Thr Thr Ser Gly Pro Val Thr Glu
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Lys Tyr Thr Val Pro Thr Glu Thr Ser Thr Thr Glu Gly Asp Ser Thr
165 170 175

Glu Thr Pro Trp Asp Thr Arg Tyr Ile Pro Val Lys Ile Thr Ser Pro
180 185 190

Met Lys Thr Phe Ala Asp Ser Thr Ala Ser Lys Glu Asn Ala Pro Val
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Ser Met Thr Pro Ala Glu Thr Thr Val Thr Asp Ser His Thr Pro Gly
210 215 220

Arg Thr Asn Pro Ser Phe Gly Thr Leu Tyr Ser Ser Phe Leu Asp Leu
225 230 235 240

Ser Pro Lys Gly Thr Pro Asn Ser Arg Gly Glu Thr Ser Leu Glu Leu
245 250 255

Ile Leu Ser Thr Thr Gly Tyr Pro Phe Ser Ser Pro Glu Pro Gly Ser
260 265 270

Ala Gly His Ser Arg Ile Ser Thr Ser Ala Pro Leu Ser Ser Ser Ala
275 280 285

Ser Val Leu Asp Asn Lys Ile Ser Glu Thr Ser Ile Phe Ser Gly Gln
290 295 300

Ser Leu Thr Ser Pro Leu Ser Pro Gly Val Pro Glu Ala Arg Ala Ser
305 310 315 320

Thr Met Pro Asn Ser Ala Ile Pro Phe Ser Met Thr Leu Ser Asn Ala
325 330 335

Glu Thr Ser Ala Glu Arg Val Arg Ser Thr Ile Ser Ser Leu Gly Thr
340 345 350

Pro Ser Ile Ser Thr Lys Gln Thr Ala Glu Thr Ile Leu Thr Phe His
355 360 365

Ala Phe Ala Glu Thr Met Asp Ile Pro Ser Thr His Ile Ala Lys Thr
370 375 380

Leu Ala Ser Glu Trp Leu Gly Ser Pro Gly Thr Leu Gly Gly Thr Ser
385 390 395 400

Thr Ser Ala Leu Thr Thr Thr Ser Pro Ser Thr Thr Leu Val Ser Glu
405 410 415

Glu Thr Asn Thr His His Ser Thr Ser Gly Lys Glu Thr Glu Gly Thr
420 425 430

Leu Asn Thr Ser Met Thr Pro Leu Glu Thr Ser Ala Pro Gly Glu Glu
435 440 445

Ser Glu Met Thr Ala Thr Leu Val Pro Thr Leu Gly Phe Thr Thr Leu
 450 455 460

Asp Ser Lys Ile Arg Ser Pro Ser Gln Val Ser Ser Ser His Pro Thr
 465 470 475 480

Arg Glu Leu Arg Thr Thr Gly Ser Thr Ser Gly Arg Gln Ser Ser Ser
 485 490 495

Thr Ala Ala His Gly Ser Ser Asp Ile Leu Arg Ala Thr Thr Ser Ser
 500 505 510

Thr Ser Lys Ala Ser Ser Trp Thr Ser Glu Ser Thr Ala Gln Gln Phe
 515 520 525

Ser Glu Pro Gln His Thr Gln Trp Val Glu Thr Ser Pro Ser Met Lys
 530 535 540

Thr Glu Arg Pro Pro Ala Ser Thr Ser Val Ala Ala Pro Ile Thr Thr
 545 550 555 560

Ser Val Pro Ser Val Val Ser Gly Phe Thr Thr Leu Lys Thr Ser Ser
 565 570 575

Thr Lys Gly Ile Trp Leu Glu Glu Thr Ser Ala Asp Thr Leu Ile Gly
 580 585 590

Glu Ser Thr Ala Gly Pro Thr Thr His Gln Phe Ala Val Pro Thr Gly
 595 600 605

Ile Ser Met Thr Gly Gly Ser Ser Thr Arg Gly Ser Gln Gly Thr Thr
 610 615 620

His Leu Leu Thr Arg Ala Thr Ala Ser Ser Glu Thr Ser Ala Asp Leu
 625 630 635 640

Thr Leu Ala Thr Asn Gly Val Pro Val Ser Val Ser Pro Ala Val Ser
 645 650 655

Lys Thr Ala Ala Gly Ser Ser Pro Pro Gly Gly Thr Lys Pro Ser Tyr
 660 665 670

Thr Met Val Ser Ser Val Ile Pro Glu Thr Ser Ser Leu Gln Ser Ser
 675 680 685

Ala Phe Arg Glu Gly Thr Ser Leu Gly Leu Thr Pro Leu Asn Thr Arg
 690 695 700

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His Pro Phe Ser Ser Pro Glu Pro Asp Ser Ala Gly His Thr Lys Ile
 705 710 715 720
 Ser Thr Ser Ile Pro Leu Leu Ser Ser Ala Ser Val Leu Glu Asp Lys
 725 730 735
 Val Ser Ala Thr Ser Thr Phe Ser His His Lys Ala Thr Ser Ser Ile
 740 745 750
 Thr Thr Gly Thr Pro Glu Ile Ser Thr Lys Thr Lys Pro Ser Ser Ala
 755 760 765
 Val Leu Ser Ser Met Thr Leu Ser Asn Ala Ala Thr Ser Pro Glu Arg
 770 775 780
 Val Arg Asn Ala Thr Ser Pro Leu Thr His Pro Ser Pro Ser Gly Glu
 785 790 795 800
 Glu Thr Ala Gly Ser Val Leu Thr Leu Ser Thr Ser Ala Glu Thr Thr
 805 810 815
 Asp Ser Pro Asn Ile His Pro Thr Gly Thr Leu Thr Ser Glu Ser Ser
 820 825 830
 Glu Ser Pro Ser Thr Leu Ser Leu Pro Ser Val Ser Gly Val Lys Thr
 835 840 845
 Thr Phe Ser Ser Ser Thr Pro Ser Thr His Leu Phe Thr Ser Gly Glu
 850 855 860
 Glu Thr Glu Glu Thr Ser Asn Pro Ser Val Ser Gln Pro Glu Thr Ser
 865 870 875 880
 Val Ser Arg Val Arg Thr Thr Leu Ala Ser Thr Ser Val Pro Thr Pro
 885 890 895
 Val Phe Pro Thr Met Asp Thr Trp Pro Thr Arg Ser Ala Gln Phe Ser
 900 905 910
 Ser Ser His Leu Val Ser Glu Leu Arg Ala Thr Ser Ser Thr Ser Val
 915 920 925
 Thr Asn Ser Thr Gly Ser Ala Leu Pro Lys Ile Ser His Leu Thr Gly
 930 935 940
 Thr Ala Thr Met Ser Gln Thr Asn Arg Asp Thr Phe Asn Asp Ser Ala
 945 950 955 960

Ala Pro Gln Ser Thr Thr Trp Pro Glu Thr Ser Pro Arg Phe Lys Thr
965 970 975

Gly Leu Pro Ser Ala Thr Thr Thr Val Ser Thr Ser Ala Thr Ser Leu
980 985 990

Ser Ala Thr Val Met Val Ser Lys Phe Thr Ser Pro Ala Thr Ser Ser
995 1000 1005

Met Glu Ala Thr Ser Ile Arg Glu Pro Ser Thr Thr Ile Leu Thr
1010 1015 1020

Thr Glu Thr Thr Asn Gly Pro Gly Ser Met Ala Val Ala Ser Thr
1025 1030 1035

Asn Ile Pro Ile Gly Lys Gly Tyr Ile Thr Glu Gly Arg Leu Asp
1040 1045 1050

Thr Ser His Leu Pro Ile Gly Thr Thr Ala Ser Ser Glu Thr Ser
1055 1060 1065

Met Asp Phe Thr Met Ala Lys Glu Ser Val Ser Met Ser Val Ser
1070 1075 1080

Pro Ser Gln Ser Met Asp Ala Ala Gly Ser Ser Thr Pro Gly Arg
1085 1090 1095

Thr Ser Gln Phe Val Asp Thr Phe Ser Asp Asp Val Tyr His Leu
1100 1105 1110

Thr Ser Arg Glu Ile Thr Ile Pro Arg Asp Gly Thr Ser Ser Ala
1115 1120 1125

Leu Thr Pro Gln Met Thr Ala Thr His Pro Pro Ser Pro Asp Pro
1130 1135 1140

Gly Ser Ala Arg Ser Thr Trp Leu Gly Ile Leu Ser Ser Ser Pro
1145 1150 1155

Ser Ser Pro Thr Pro Lys Val Thr Met Ser Ser Thr Phe Ser Thr
1160 1165 1170

Gln Arg Val Thr Thr Ser Met Ile Met Asp Thr Val Glu Thr Ser
1175 1180 1185

Arg Trp Asn Met Pro Asn Leu Pro Ser Thr Thr Ser Leu Thr Pro
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1190						1195						1200	
Ser	Asn	Ile	Pro	Thr	Ser	Gly	Ala	Ile	Gly	Lys	Ser	Thr	Leu Val
1205						1210					1215		
Pro	Leu	Asp	Thr	Pro	Ser	Pro	Ala	Thr	Ser	Leu	Glu	Ala	Ser Glu
1220						1225					1230		
Gly	Gly	Leu	Pro	Thr	Leu	Ser	Thr	Tyr	Pro	Glu	Ser	Thr	Asn Thr
1235						1240					1245		
Pro	Ser	Ile	His	Leu	Gly	Ala	His	Ala	Ser	Ser	Glu	Ser	Pro Ser
1250						1255					1260		
Thr	Ile	Asn	Leu	Thr	Met	Ala	Ser	Val	Val	Lys	Pro	Gly	Ser Tyr
1265						1270					1275		
Thr	Pro	Leu	Thr	Phe	Pro	Ser	Ile	Glu	Thr	His	Ile	His	Val Ser
1280						1285					1290		
Thr	Ala	Arg	Met	Ala	Tyr	Ser	Ser	Gly	Ser	Ser	Pro	Glu	Met Thr
1295						1300					1305		
Ala	Pro	Gly	Glu	Thr	Asn	Thr	Gly	Ser	Thr	Trp	Asp	Pro	Thr Thr
1310						1315					1320		
Tyr	Ile	Thr	Thr	Thr	Asp	Pro	Lys	Asp	Thr	Ser	Ser	Ala	Gln Val
1325						1330					1335		
Ser	Thr	Pro	His	Ser	Val	Arg	Thr	Leu	Arg	Thr	Thr	Glu	Asn His
1340						1345					1350		
Pro	Lys	Thr	Glu	Ser	Ala	Thr	Pro	Ala	Ala	Tyr	Ser	Gly	Ser Pro
1355						1360					1365		
Lys	Ile	Ser	Ser	Ser	Pro	Asn	Leu	Thr	Ser	Pro	Ala	Thr	Lys Ala
1370						1375					1380		
Trp	Thr	Ile	Thr	Asp	Thr	Thr	Glu	His	Ser	Thr	Gln	Leu	His Tyr
1385						1390					1395		
Thr	Lys	Leu	Ala	Glu	Lys	Ser	Ser	Gly	Phe	Glu	Thr	Gln	Ser Ala
1400						1405					1410		
Pro	Gly	Pro	Val	Ser	Val	Val	Ile	Pro	Thr	Ser	Pro	Thr	Ile Gly
1415						1420					1425		

Ser Ser Thr Leu Glu Leu Thr Ser Asp Val Pro Gly Glu Pro Leu
 1430 1435 1440
 Val Leu Ala Pro Ser Glu Gln Thr Thr Ile Thr Leu Pro Met Ala
 1445 1450 1455
 Thr Trp Leu Ser Thr Ser Leu Thr Glu Glu Met Ala Ser Thr Asp
 1460 1465 1470
 Leu Asp Ile Ser Ser Pro Ser Ser Pro Met Ser Thr Phe Ala Ile
 1475 1480 1485
 Phe Pro Pro Met Ser Thr Pro Ser His Glu Leu Ser Lys Ser Glu
 1490 1495 1500
 Ala Asp Thr Ser Ala Ile Arg Asn Thr Asp Ser Thr Thr Leu Asp
 1505 1510 1515
 Gln His Leu Gly Ile Arg Ser Leu Gly Arg Thr Gly Asp Leu Thr
 1520 1525 1530
 Thr Val Pro Ile Thr Pro Leu Thr Thr Thr Trp Thr Ser Val Ile
 1535 1540 1545
 Glu His Ser Thr Gln Ala Gln Asp Thr Leu Ser Ala Thr Met Ser
 1550 1555 1560
 Pro Thr His Val Thr Gln Ser Leu Lys Asp Gln Thr Ser Ile Pro
 1565 1570 1575
 Ala Ser Ala Ser Pro Ser His Leu Thr Glu Val Tyr Pro Glu Leu
 1580 1585 1590
 Gly Thr Gln Gly Arg Ser Ser Ser Glu Ala Thr Thr Phe Trp Lys
 1595 1600 1605
 Pro Ser Thr Asp Thr Leu Ser Arg Glu Ile Glu Thr Gly Pro Thr
 1610 1615 1620
 Asn Ile Gln Ser Thr Pro Pro Met Asp Asn Thr Thr Thr Gly Ser
 1625 1630 1635
 Ser Ser Ser Gly Val Thr Leu Gly Ile Ala His Leu Pro Ile Gly
 1640 1645 1650
 Thr Ser Ser Pro Ala Glu Thr Ser Thr Asn Met Ala Leu Glu Arg
 1655 1660 1665

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Arg Ser Ser Thr Ala Thr Val Ser Met Ala Gly Thr Met Gly Leu
1670 1675 1680

Leu Val Thr Ser Ala Pro Gly Arg Ser Ile Ser Gln Ser Leu Gly
1685 1690 1695

Arg Val Ser Ser Val Leu Ser Glu Ser Thr Thr Glu Gly Val Thr
1700 1705 1710

Asp Ser Ser Lys Gly Ser Ser Pro Arg Leu Asn Thr Gln Gly Asn
1715 1720 1725

Thr Ala Leu Ser Ser Ser Leu Glu Pro Ser Tyr Ala Glu Gly Ser
1730 1735 1740

Gln Met Ser Thr Ser Ile Pro Leu Thr Ser Ser Pro Thr Thr Pro
1745 1750 1755

Asp Val Glu Phe Ile Gly Gly Ser Thr Phe Trp Thr Lys Glu Val
1760 1765 1770

Thr Thr Val Met Thr Ser Asp Ile Ser Lys Ser Ser Ala Arg Thr
1775 1780 1785

Glu Ser Ser Ser Ala Thr Leu Met Ser Thr Ala Leu Gly Ser Thr
1790 1795 1800

Glu Asn Thr Gly Lys Glu Lys Leu Arg Thr Ala Ser Met Asp Leu
1805 1810 1815

Pro Ser Pro Thr Pro Ser Met Glu Val Thr Pro Trp Ile Ser Leu
1820 1825 1830

Thr Leu Ser Asn Ala Pro Asn Thr Thr Asp Ser Leu Asp Leu Ser
1835 1840 1845

His Gly Val His Thr Ser Ser Ala Gly Thr Leu Ala Thr Asp Arg
1850 1855 1860

Ser Leu Asn Thr Gly Val Thr Arg Ala Ser Arg Leu Glu Asn Gly
1865 1870 1875

Ser Asp Thr Ser Ser Lys Ser Leu Ser Met Gly Asn Ser Thr His
1880 1885 1890

Thr Ser Met Thr Asp Thr Glu Lys Ser Glu Val Ser Ser Ser Ile
1895 1900 1905

His Pro Arg Pro Glu Thr Ser Ala Pro Gly Ala Glu Thr Thr Leu
 1910 1915 1920
 Thr Ser Thr Pro Gly Asn Arg Ala Ile Ser Leu Thr Leu Pro Phe
 1925 1930 1935
 Ser Ser Ile Pro Val Glu Glu Val Ile Ser Thr Gly Ile Thr Ser
 1940 1945 1950
 Gly Pro Asp Ile Asn Ser Ala Pro Met Thr His Ser Pro Ile Thr
 1955 1960 1965
 Pro Pro Thr Ile Val Trp Thr Ser Thr Gly Thr Ile Glu Gln Ser
 1970 1975 1980
 Thr Gln Pro Leu His Ala Val Ser Ser Glu Lys Val Ser Val Gln
 1985 1990 1995
 Thr Gln Ser Thr Pro Tyr Val Asn Ser Val Ala Val Ser Ala Ser
 2000 2005 2010
 Pro Thr His Glu Asn Ser Val Ser Ser Gly Ser Ser Thr Ser Ser
 2015 2020 2025
 Pro Tyr Ser Ser Ala Ser Leu Glu Ser Leu Asp Ser Thr Ile Ser
 2030 2035 2040
 Arg Arg Asn Ala Ile Thr Ser Trp Leu Trp Asp Leu Thr Thr Ser
 2045 2050 2055
 Leu Pro Thr Thr Thr Trp Pro Ser Thr Ser Leu Ser Glu Ala Leu
 2060 2065 2070
 Ser Ser Gly His Ser Gly Val Ser Asn Pro Ser Ser Thr Thr Thr
 2075 2080 2085
 Glu Phe Pro Leu Phe Ser Ala Ala Ser Thr Ser Ala Ala Lys Gln
 2090 2095 2100
 Arg Asn Pro Glu Thr Glu Thr His Gly Pro Gln Asn Thr Ala Ala
 2105 2110 2115
 Ser Thr Leu Asn Thr Asp Ala Ser Ser Val Thr Gly Leu Ser Glu
 2120 2125 2130
 Thr Pro Val Gly Ala Ser Ile Ser Ser Glu Val Pro Leu Pro Met
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2135

2140

2145

Ala Ile Thr Ser Arg Ser Asp Val Ser Gly Leu Thr Ser Glu Ser
 2150 2155 2160

Thr Ala Asn Pro Ser Leu Gly Thr Ala Ser Ser Ala Gly Thr Lys
 2165 2170 2175

Leu Thr Arg Thr Ile Ser Leu Pro Thr Ser Glu Ser Leu Val Ser
 2180 2185 2190

Phe Arg Met Asn Lys Asp Pro Trp Thr Val Ser Ile Pro Leu Gly
 2195 2200 2205

Ser His Pro Thr Thr Asn Thr Glu Thr Ser Ile Pro Val Asn Ser
 2210 2215 2220

Ala Gly Pro Pro Gly Leu Ser Thr Val Ala Ser Asp Val Ile Asp
 2225 2230 2235

Thr Pro Ser Asp Gly Ala Glu Ser Ile Pro Thr Val Ser Phe Ser
 2240 2245 2250

Pro Ser Pro Asp Thr Glu Val Thr Thr Ile Ser His Phe Pro Glu
 2255 2260 2265

Lys Thr Thr His Ser Phe Arg Thr Ile Ser Ser Leu Thr His Glu
 2270 2275 2280

Leu Thr Ser Arg Val Thr Pro Ile Pro Gly Asp Trp Met Ser Ser
 2285 2290 2295

Ala Met Ser Thr Lys Pro Thr Gly Ala Ser Pro Ser Ile Thr Leu
 2300 2305 2310

Gly Glu Arg Arg Thr Ile Thr Ser Ala Ala Pro Thr Thr Ser Pro
 2315 2320 2325

Ile Val Leu Thr Ala Ser Phe Thr Glu Thr Ser Thr Val Ser Leu
 2330 2335 2340

Asp Asn Glu Thr Thr Val Lys Thr Ser Asp Ile Leu Asp Ala Arg
 2345 2350 2355

Lys Thr Asn Glu Leu Pro Ser Asp Ser Ser Ser Ser Ser Asp Leu
 2360 2365 2370

Ile Asn Thr Ser Ile Ala Ser Ser Thr Met Asp Val Thr Lys Thr
 2375 2380 2385
 Ala Ser Ile Ser Pro Thr Ser Ile Ser Gly Met Thr Ala Ser Ser
 2390 2395 2400
 Ser Pro Ser Leu Phe Ser Ser Asp Arg Pro Gln Val Pro Thr Ser
 2405 2410 2415
 Thr Thr Glu Thr Asn Thr Ala Thr Ser Pro Ser Val Ser Ser Asn
 2420 2425 2430
 Thr Tyr Ser Leu Asp Gly Gly Ser Asn Val Gly Gly Thr Pro Ser
 2435 2440 2445
 Thr Leu Pro Pro Phe Thr Ile Thr His Pro Val Glu Thr Ser Ser
 2450 2455 2460
 Ala Leu Leu Ala Trp Ser Arg Pro Val Arg Thr Phe Ser Thr Met
 2465 2470 2475
 Val Ser Thr Asp Thr Ala Ser Gly Glu Asn Pro Thr Ser Ser Asn
 2480 2485 2490
 Ser Val Val Thr Ser Val Pro Ala Pro Gly Thr Trp Ala Ser Val
 2495 2500 2505
 Gly Ser Thr Thr Asp Leu Pro Ala Met Gly Phe Leu Lys Thr Ser
 2510 2515 2520
 Pro Ala Gly Glu Ala His Ser Leu Leu Ala Ser Thr Ile Glu Pro
 2525 2530 2535
 Ala Thr Ala Phe Thr Pro His Leu Ser Ala Ala Val Val Thr Gly
 2540 2545 2550
 Ser Ser Ala Thr Ser Glu Ala Ser Leu Leu Thr Thr Ser Glu Ser
 2555 2560 2565
 Lys Ala Ile His Ser Ser Pro Gln Thr Pro Thr Thr Pro Thr Ser
 2570 2575 2580
 Gly Ala Asn Trp Glu Thr Ser Ala Thr Pro Glu Ser Leu Leu Val
 2585 2590 2595
 Val Thr Glu Thr Ser Asp Thr Thr Leu Thr Ser Lys Ile Leu Val
 2600 2605 2610

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Thr Asp Thr Ile Leu Phe Ser Thr Val Ser Thr Pro Pro Ser Lys
2615 2620 2625

Phe Pro Ser Thr Gly Thr Leu Ser Gly Ala Ser Phe Pro Thr Leu
2630 2635 2640

Leu Pro Asp Thr Pro Ala Ile Pro Leu Thr Ala Thr Glu Pro Thr
2645 2650 2655

Ser Ser Leu Ala Thr Ser Phe Asp Ser Thr Pro Leu Val Thr Ile
2660 2665 2670

Ala Ser Asp Ser Leu Gly Thr Val Pro Glu Thr Thr Leu Thr Met
2675 2680 2685

Ser Glu Thr Ser Asn Gly Asp Ala Leu Val Leu Lys Thr Val Ser
2690 2695 2700

Asn Pro Asp Arg Ser Ile Pro Gly Ile Thr Ile Gln Gly Val Thr
2705 2710 2715

Glu Ser Pro Leu His Pro Ser Ser Thr Ser Pro Ser Lys Ile Val
2720 2725 2730

Ala Pro Arg Asn Thr Thr Tyr Glu Gly Ser Ile Thr Val Ala Leu
2735 2740 2745

Ser Thr Leu Pro Ala Gly Thr Thr Gly Ser Leu Val Phe Ser Gln
2750 2755 2760

Ser Ser Glu Asn Ser Glu Thr Thr Ala Leu Val Asp Ser Ser Ala
2765 2770 2775

Gly Leu Glu Arg Ala Ser Val Met Pro Leu Thr Thr Gly Ser Gln
2780 2785 2790

Gly Met Ala Ser Ser Gly Gly Ile Arg Ser Gly Ser Thr His Ser
2795 2800 2805

Thr Gly Thr Lys Thr Phe Ser Ser Leu Pro Leu Thr Met Asn Pro
2810 2815 2820

Gly Glu Val Thr Ala Met Ser Glu Ile Thr Thr Asn Arg Leu Thr
2825 2830 2835

Ala Thr Gln Ser Thr Ala Pro Lys Gly Ile Pro Val Lys Pro Thr
2840 2845 2850

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Ser Ala Glu Ser Gly Leu Leu Thr Pro Val Ser Ala Ser Ser Ser
2855 2860 2865

Pro Ser Lys Ala Phe Ala Ser Leu Thr Thr Ala Pro Pro Ser Thr
2870 2875 2880

Trp Gly Ile Pro Gln Ser Thr Leu Thr Phe Glu Phe Ser Glu Val
2885 2890 2895

Pro Ser Leu Asp Thr Lys Ser Ala Ser Leu Pro Thr Pro Gly Gln
2900 2905 2910

Ser Leu Asn Thr Ile Pro Asp Ser Asp Ala Ser Thr Ala Ser Ser
2915 2920 2925

Ser Leu Ser Lys Ser Pro Glu Lys Asn Pro Arg Ala Arg Met Met
2930 2935 2940

Thr Ser Thr Lys Ala Ile Ser Ala Ser Ser Phe Gln Ser Thr Gly
2945 2950 2955

Phe Thr Glu Thr Pro Glu Gly Ser Ala Ser Pro Ser Met Ala Gly
2960 2965 2970

His Glu Pro Arg Val Pro Thr Ser Gly Thr Gly Asp Pro Arg Tyr
2975 2980 2985

Ala Ser Glu Ser Met Ser Tyr Pro Asp Pro Ser Lys Ala Ser Ser
2990 2995 3000

Ala Met Thr Ser Thr Ser Leu Ala Ser Lys Leu Thr Thr Leu Phe
3005 3010 3015

Ser Thr Gly Gln Ala Ala Arg Ser Gly Ser Ser Ser Ser Pro Ile
3020 3025 3030

Ser Leu Ser Thr Glu Lys Glu Thr Ser Phe Leu Ser Pro Thr Ala
3035 3040 3045

Ser Thr Ser Arg Lys Thr Ser Leu Phe Leu Gly Pro Ser Met Ala
3050 3055 3060

Arg Gln Pro Asn Ile Leu Val His Leu Gln Thr Ser Ala Leu Thr
3065 3070 3075

Leu Ser Pro Thr Ser Thr Leu Asn Met Ser Gln Glu Glu Pro Pro

3080

3085

3090

Glu Leu Thr Ser Ser Gln Thr Ile Ala Glu Glu Glu Gly Thr Thr
 3095 3100 3105

Ala Glu Thr Gln Thr Leu Thr Phe Thr Pro Ser Glu Thr Pro Thr
 3110 3115 3120

Ser Leu Leu Pro Val Ser Ser Pro Thr Glu Pro Thr Ala Arg Arg
 3125 3130 3135

Lys Ser Ser Pro Glu Thr Trp Ala Ser Ser Ile Ser Val Pro Ala
 3140 3145 3150

Lys Thr Ser Leu Val Glu Thr Thr Asp Gly Thr Leu Val Thr Thr
 3155 3160 3165

Ile Lys Met Ser Ser Gln Ala Ala Gln Gly Asn Ser Thr Trp Pro
 3170 3175 3180

Ala Pro Ala Glu Glu Thr Gly Thr Ser Pro Ala Gly Thr Ser Pro
 3185 3190 3195

Gly Ser Pro Glu Val Ser Thr Thr Leu Lys Ile Met Ser Ser Lys
 3200 3205 3210

Glu Pro Ser Ile Ser Pro Glu Ile Arg Ser Thr Val Arg Asn Ser
 3215 3220 3225

Pro Trp Lys Thr Pro Glu Thr Thr Val Pro Met Glu Thr Thr Val
 3230 3235 3240

Glu Pro Val Thr Leu Gln Ser Thr Ala Leu Gly Ser Gly Ser Thr
 3245 3250 3255

Ser Ile Ser His Leu Pro Thr Gly Thr Thr Ser Pro Thr Lys Ser
 3260 3265 3270

Pro Thr Glu Asn Met Leu Ala Thr Glu Arg Val Ser Leu Ser Pro
 3275 3280 3285

Ser Pro Pro Glu Ala Trp Thr Asn Leu Tyr Ser Gly Thr Pro Gly
 3290 3295 3300

Gly Thr Arg Gln Ser Leu Ala Thr Met Ser Ser Val Ser Leu Glu
 3305 3310 3315

Ser Pro Thr Ala Arg Ser Ile Thr Gly Thr Gly Gln Gln Ser Ser
 3320 3325 3330
 Pro Glu Leu Val Ser Lys Thr Thr Gly Met Glu Phe Ser Met Trp
 3335 3340 3345
 His Gly Ser Thr Gly Gly Thr Thr Gly Asp Thr His Val Ser Leu
 3350 3355 3360
 Ser Thr Ser Ser Asn Ile Leu Glu Asp Pro Val Thr Ser Pro Asn
 3365 3370 3375
 Ser Val Ser Ser Leu Thr Asp Lys Ser Lys His Lys Thr Glu Thr
 3380 3385 3390
 Trp Val Ser Thr Thr Ala Ile Pro Ser Thr Val Leu Asn Asn Lys
 3395 3400 3405
 Ile Met Ala Ala Glu Gln Gln Thr Ser Arg Ser Val Asp Glu Ala
 3410 3415 3420
 Tyr Ser Ser Thr Ser Ser Trp Ser Asp Gln Thr Ser Gly Ser Asp
 3425 3430 3435
 Ile Thr Leu Gly Ala Ser Pro Asp Val Thr Asn Thr Leu Tyr Ile
 3440 3445 3450
 Thr Ser Thr Ala Gln Thr Thr Ser Leu Val Ser Leu Pro Ser Gly
 3455 3460 3465
 Asp Gln Gly Ile Thr Ser Leu Thr Asn Pro Ser Gly Gly Lys Thr
 3470 3475 3480
 Ser Ser Ala Ser Ser Val Thr Ser Pro Ser Ile Gly Leu Glu Thr
 3485 3490 3495
 Leu Arg Ala Asn Val Ser Ala Val Lys Ser Asp Ile Ala Pro Thr
 3500 3505 3510
 Ala Gly His Leu Ser Gln Thr Ser Ser Pro Ala Glu Val Ser Ile
 3515 3520 3525
 Leu Asp Val Thr Thr Ala Pro Thr Pro Gly Ile Ser Thr Thr Ile
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 Thr Thr Met Gly Thr Asn Ser Ile Ser Thr Thr Thr Pro Asn Pro
 3545 3550 3555

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Glu Val Gly Met Ser Thr Met Asp Ser Thr Pro Ala Thr Glu Arg
 3560 3565 3570
 Arg Thr Thr Ser Thr Glu His Pro Ser Thr Trp Ser Ser Thr Ala
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 Ala Ser Asp Ser Trp Thr Val Thr Asp Met Thr Ser Asn Leu Lys
 3590 3595 3600
 Val Ala Arg Ser Pro Gly Thr Ile Ser Thr Met His Thr Thr Ser
 3605 3610 3615
 Phe Leu Ala Ser Ser Thr Glu Leu Asp Ser Met Ser Thr Pro His
 3620 3625 3630
 Gly Arg Ile Thr Val Ile Gly Thr Ser Leu Val Thr Pro Ser Ser
 3635 3640 3645
 Asp Ala Ser Ala Val Lys Thr Glu Thr Ser Thr Ser Glu Arg Thr
 3650 3655 3660
 Leu Ser Pro Ser Asp Thr Thr Ala Ser Thr Pro Ile Ser Thr Phe
 3665 3670 3675
 Ser Arg Val Gln Arg Met Ser Ile Ser Val Pro Asp Ile Leu Ser
 3680 3685 3690
 Thr Ser Trp Thr Pro Ser Ser Thr Glu Ala Glu Asp Val Pro Val
 3695 3700 3705
 Ser Met Val Pro Thr Asp His Ala Ser Thr Lys Thr Asp Pro Asn
 3710 3715 3720
 Thr Pro Leu Ser Thr Phe Leu Phe Asp Ser Leu Ser Thr Leu Asp
 3725 3730 3735
 Trp Asp Thr Gly Arg Ser Leu Ser Ser Ala Thr Ala Thr Thr Ser
 3740 3745 3750
 Ala Pro Gln Gly Ala Thr Thr Pro Gln Glu Leu Thr Leu Glu Thr
 3755 3760 3765
 Met Ile Ser Pro Ala Thr Ser Gln Leu Pro Phe Ser Ile Gly His
 3770 3775 3780
 Ile Thr Ser Ala Val Thr Pro Ala Ala Met Ala Arg Ser Ser Gly
 3785 3790 3795

Val Thr Phe Ser Arg Pro Asp Pro Thr Ser Lys Lys Ala Glu Gln
 3800 3805 3810
 Thr Ser Thr Gln Leu Pro Thr Thr Thr Ser Ala His Pro Gly Gln
 3815 3820 3825
 Val Pro Arg Ser Ala Ala Thr Thr Leu Asp Val Ile Pro His Thr
 3830 3835 3840
 Ala Lys Thr Pro Asp Ala Thr Phe Gln Arg Gln Gly Gln Thr Ala
 3845 3850 3855
 Leu Thr Thr Glu Ala Arg Ala Thr Ser Asp Ser Trp Asn Glu Lys
 3860 3865 3870
 Glu Lys Ser Thr Pro Ser Ala Pro Trp Ile Thr Glu Met Met Asn
 3875 3880 3885
 Ser Val Ser Glu Asp Thr Ile Lys Glu Val Thr Ser Ser Ser Ser
 3890 3895 3900
 Val Leu Lys Asp Pro Glu Tyr Ala Gly His Lys Leu Gly Ile Trp
 3905 3910 3915
 Asp Asp Phe Ile Pro Lys Phe Gly Lys Ala Ala His Met Arg Glu
 3920 3925 3930
 Leu Pro Leu Leu Ser Pro Pro Gln Asp Lys Glu Ala Ile His Pro
 3935 3940 3945
 Ser Thr Asn Thr Val Glu Thr Thr Gly Trp Val Thr Ser Ser Glu
 3950 3955 3960
 His Ala Ser His Ser Thr Ile Pro Ala His Ser Ala Ser Ser Lys
 3965 3970 3975
 Leu Thr Ser Pro Val Val Thr Thr Ser Thr Arg Glu Gln Ala Ile
 3980 3985 3990
 Val Ser Met Ser Thr Thr Thr Trp Pro Glu Ser Thr Arg Ala Arg
 3995 4000 4005
 Thr Glu Pro Asn Ser Phe Leu Thr Ile Glu Leu Arg Asp Val Ser
 4010 4015 4020
 Pro Tyr Met Asp Thr Ser Ser Thr Thr Gln Thr Ser Ile Ile Ser

4025 4030 4035
 Ser Pro Gly Ser Thr Ala Ile Thr Lys Gly His Arg Thr Glu Ile
 4040 4045 4050
 Thr Ser Tyr Lys Arg Ile Ser Ser Ser Phe Leu Ala Gln Ser Met
 4055 4060 4065
 Arg Ser Ser Asp Ser Pro Ser Glu Ala Ile Thr Arg Leu Ser Asn
 4070 4075 4080
 Phe Pro Ala Met Thr Glu Ser Gly Gly Met Ile Leu Ala Met Gln
 4085 4090 4095
 Thr Ser Pro Pro Gly Ala Thr Ser Ile Ser Ala Pro Thr Leu Asp
 4100 4105 4110
 Thr Ser Ala Thr Ala Ser Trp Thr Gly Thr Pro Leu Ala Thr Thr
 4115 4120 4125
 Gln Arg Phe Thr Tyr Ser Glu Lys Thr Thr Leu Phe Ser Lys Gly
 4130 4135 4140
 Arg Glu Asp Thr Ser Gln Pro Ser Pro Pro Cys Val Glu Glu Thr
 4145 4150 4155
 Ser Ser Ser Ser Ser Val Val Pro Ile His Ala Thr Thr Ser Pro
 4160 4165 4170
 Ser Asn Ile Leu Leu Thr Ser Gln Gly His Ser Pro Ser Ser Thr
 4175 4180 4185
 Pro Pro Val Thr Ser Val Phe Leu Ser Glu Thr Ser Gly Leu Gly
 4190 4195 4200
 Lys Thr Thr Asp Met Ser Arg Ile Ser Leu Glu Pro Gly Thr Ser
 4205 4210 4215
 Leu Pro Pro Asn Leu Ser Ser Thr Ala Gly Glu Ala Leu Ser Thr
 4220 4225 4230
 Tyr Glu Ala Ser Arg Asp Thr Lys Ala Ile His His Ser Ala Asp
 4235 4240 4245
 Thr Ala Val Thr Asn Met Glu Ala Thr Ser Ser Glu Tyr Ser Pro
 4250 4255 4260

Ile Pro Gly His Thr Lys Pro Ser Lys Ala Thr Ser Pro Leu Val
 4265 4270 4275
 Thr Ser His Ile Met Gly Asp Ile Thr Ser Ser Thr Ser Val Phe
 4280 4285 4290
 Gly Ser Ser Glu Thr Thr Glu Ile Glu Thr Val Ser Ser Val Asn
 4295 4300 4305
 Gln Gly Leu Gln Glu Arg Ser Thr Ser Gln Val Ala Ser Ser Ala
 4310 4315 4320
 Thr Glu Thr Ser Thr Val Ile Thr His Val Ser Ser Gly Asp Ala
 4325 4330 4335
 Thr Thr His Val Thr Lys Thr Gln Ala Thr Phe Ser Ser Gly Thr
 4340 4345 4350
 Ser Ile Ser Ser Pro His Gln Phe Ile Thr Ser Thr Asn Thr Phe
 4355 4360 4365
 Thr Asp Val Ser Thr Asn Pro Ser Thr Ser Leu Ile Met Thr Glu
 4370 4375 4380
 Ser Ser Gly Val Thr Ile Thr Thr Gln Thr Gly Pro Thr Gly Ala
 4385 4390 4395
 Ala Thr Gln Gly Pro Tyr Leu Leu Asp Thr Ser Thr Met Pro Tyr
 4400 4405 4410
 Leu Thr Glu Thr Pro Leu Ala Val Thr Pro Asp Phe Met Gln Ser
 4415 4420 4425
 Glu Lys Thr Thr Leu Ile Ser Lys Gly Pro Lys Asp Val Thr Trp
 4430 4435 4440
 Thr Ser Pro Pro Ser Val Ala Glu Thr Ser Tyr Pro Ser Ser Leu
 4445 4450 4455
 Thr Pro Phe Leu Val Thr Thr Ile Pro Pro Ala Thr Ser Thr Leu
 4460 4465 4470
 Gln Gly Gln His Thr Ser Ser Pro Val Ser Ala Thr Ser Val Leu
 4475 4480 4485
 Thr Ser Gly Leu Val Lys Thr Thr Asp Met Leu Asn Thr Ser Met
 4490 4495 4500

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Glu Pro Val Thr Asn Ser Pro Gln Asn Leu Asn Asn Pro Ser Asn
 4505 4510 4515
 Glu Ile Leu Ala Thr Leu Ala Ala Thr Thr Asp Ile Glu Thr Ile
 4520 4525 4530
 His Pro Ser Ile Asn Lys Ala Val Thr Asn Met Gly Thr Ala Ser
 4535 4540 4545
 Ser Ala His Val Leu His Ser Thr Leu Pro Val Ser Ser Glu Pro
 4550 4555 4560
 Ser Thr Ala Thr Ser Pro Met Val Pro Ala Ser Ser Met Gly Asp
 4565 4570 4575
 Ala Leu Ala Ser Ile Ser Ile Pro Gly Ser Glu Thr Thr Asp Ile
 4580 4585 4590
 Glu Gly Glu Pro Thr Ser Ser Leu Thr Ala Gly Arg Lys Glu Asn
 4595 4600 4605
 Ser Thr Leu Gln Glu Met Asn Ser Thr Thr Glu Ser Asn Ile Ile
 4610 4615 4620
 Leu Ser Asn Val Ser Val Gly Ala Ile Thr Glu Ala Thr Lys Met
 4625 4630 4635
 Glu Val Pro Ser Phe Asp Ala Thr Phe Ile Pro Thr Pro Ala Gln
 4640 4645 4650
 Ser Thr Lys Phe Pro Asp Ile Phe Ser Val Ala Ser Ser Arg Leu
 4655 4660 4665
 Ser Asn Ser Pro Pro Met Thr Ile Ser Thr His Met Thr Thr Thr
 4670 4675 4680
 Gln Thr Gly Ser Ser Gly Ala Thr Ser Lys Ile Pro Leu Ala Leu
 4685 4690 4695
 Asp Thr Ser Thr Leu Glu Thr Ser Ala Gly Thr Pro Ser Val Val
 4700 4705 4710
 Thr Glu Gly Phe Ala His Ser Lys Ile Thr Thr Ala Met Asn Asn
 4715 4720 4725
 Asp Val Lys Asp Val Ser Gln Thr Asn Pro Pro Phe Gln Asp Glu
 4730 4735 4740

Ala Ser Ser Pro Ser Ser Gln Ala Pro Val Leu Val Thr Thr Leu
 4745 4750 4755
 Pro Ser Ser Val Ala Phe Thr Pro Gln Trp His Ser Thr Ser Ser
 4760 4765 4770
 Pro Val Ser Met Ser Ser Val Leu Thr Ser Ser Leu Val Lys Thr
 4775 4780 4785
 Ala Gly Lys Val Asp Thr Ser Leu Glu Thr Val Thr Ser Ser Pro
 4790 4795 4800
 Gln Ser Met Ser Asn Thr Leu Asp Asp Ile Ser Val Thr Ser Ala
 4805 4810 4815
 Ala Thr Thr Asp Ile Glu Thr Thr His Pro Ser Ile Asn Thr Val
 4820 4825 4830
 Val Thr Asn Val Gly Thr Thr Gly Ser Ala Phe Glu Ser His Ser
 4835 4840 4845
 Thr Val Ser Ala Tyr Pro Glu Pro Ser Lys Val Thr Ser Pro Asn
 4850 4855 4860
 Val Thr Thr Ser Thr Met Glu Asp Thr Thr Ile Ser Arg Ser Ile
 4865 4870 4875
 Pro Lys Ser Ser Lys Thr Thr Arg Thr Glu Thr Glu Thr Thr Ser
 4880 4885 4890
 Ser Leu Thr Pro Lys Leu Arg Glu Thr Ser Ile Ser Gln Glu Ile
 4895 4900 4905
 Thr Ser Ser Thr Glu Thr Ser Thr Val Pro Tyr Lys Glu Leu Thr
 4910 4915 4920
 Gly Ala Thr Thr Glu Val Ser Arg Thr Asp Val Thr Ser Ser Ser
 4925 4930 4935
 Ser Thr Ser Phe Pro Gly Pro Asp Gln Ser Thr Val Ser Leu Asp
 4940 4945 4950
 Ile Ser Thr Glu Thr Asn Thr Arg Leu Ser Thr Ser Pro Ile Met
 4955 4960 4965
 Thr Glu Ser Ala Glu Ile Thr Ile Thr Thr Gln Thr Gly Pro His
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4970

4975

4980

Gly Ala Thr Ser Gln Asp Thr Phe Thr Met Asp Pro Ser Asn Thr
 4985 4990 4995
 Thr Pro Gln Ala Gly Ile His Ser Ala Met Thr His Gly Phe Ser
 5000 5005 5010
 Gln Leu Asp Val Thr Thr Leu Met Ser Arg Ile Pro Gln Asp Val
 5015 5020 5025
 Ser Trp Thr Ser Pro Pro Ser Val Asp Lys Thr Ser Ser Pro Ser
 5030 5035 5040
 Ser Phe Leu Ser Ser Pro Ala Met Thr Thr Pro Ser Leu Ile Ser
 5045 5050 5055
 Ser Thr Leu Pro Glu Asp Lys Leu Ser Ser Pro Met Thr Ser Leu
 5060 5065 5070
 Leu Thr Ser Gly Leu Val Lys Ile Thr Asp Ile Leu Arg Thr Arg
 5075 5080 5085
 Leu Glu Pro Val Thr Ser Ser Leu Pro Asn Phe Ser Ser Thr Ser
 5090 5095 5100
 Asp Lys Ile Leu Ala Thr Ser Lys Asp Ser Lys Asp Thr Lys Glu
 5105 5110 5115
 Ile Phe Pro Ser Ile Asn Thr Glu Glu Thr Asn Val Lys Ala Asn
 5120 5125 5130
 Asn Ser Gly His Glu Ser His Ser Pro Ala Leu Ala Asp Ser Glu
 5135 5140 5145
 Thr Pro Lys Ala Thr Thr Gln Met Val Ile Thr Thr Thr Val Gly
 5150 5155 5160
 Asp Pro Ala Pro Ser Thr Ser Met Pro Val His Gly Ser Ser Glu
 5165 5170 5175
 Thr Thr Asn Ile Lys Arg Glu Pro Thr Tyr Phe Leu Thr Pro Arg
 5180 5185 5190
 Leu Arg Glu Thr Ser Thr Ser Gln Glu Ser Ser Phe Pro Thr Asp
 5195 5200 5205

Thr Ser Phe Leu Leu Ser Lys Val Pro Thr Gly Thr Ile Thr Glu
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 Val Ser Ser Thr Gly Val Ile Ser Ser Ser Lys Ile Ser Thr Pro
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 Asp His Asp Lys Ser Thr Val Pro Pro Asp Thr Phe Thr Gly Glu
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 Ile Pro Arg Val Phe Thr Ser Ser Ile Lys Thr Lys Ser Ala Glu
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 Met Thr Ile Thr Thr Gln Ala Ser Pro Pro Glu Ser Ala Ser His
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 Ser Thr Leu Pro Leu Asp Thr Ser Thr Thr Leu Ser Gln Gly Gly
 5285 5290 5295
 Thr His Ser Thr Val Ser Gln Gly Phe Pro Tyr Ser Glu Val Thr
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 Thr Leu Met Gly Met Gly Pro Gly Asn Val Ser Trp Met Thr Thr
 5315 5320 5325
 Pro Pro Val Glu Glu Thr Ser Ser Val Ser Ser Leu Met Ser Ser
 5330 5335 5340
 Pro Ala Met Thr Ser Pro Ser Pro Val Ser Ser Thr Ser Pro Gln
 5345 5350 5355
 Ser Ile Pro Ser Ser Pro Leu Pro Val Thr Ala Leu Pro Thr Ser
 5360 5365 5370
 Val Leu Val Thr Thr Thr Asp Val Leu Gly Thr Thr Ser Pro Glu
 5375 5380 5385
 Ser Val Thr Ser Ser Pro Pro Asn Leu Ser Ser Ile Thr His Glu
 5390 5395 5400
 Arg Pro Ala Thr Tyr Lys Asp Thr Ala His Thr Glu Ala Ala Met
 5405 5410 5415
 His His Ser Thr Asn Thr Ala Val Thr Asn Val Gly Thr Ser Gly
 5420 5425 5430
 Ser Gly His Lys Ser Gln Ser Ser Val Leu Ala Asp Ser Glu Thr
 5435 5440 5445

Ser Lys Ala Thr Pro Leu Met Ser Thr Ala Ser Thr Leu Gly Asp
 5450 5455 5460
 Thr Ser Val Ser Thr Ser Thr Pro Asn Ile Ser Gln Thr Asn Gln
 5465 5470 5475
 Ile Gln Thr Glu Pro Thr Ala Ser Leu Ser Pro Arg Leu Arg Glu
 5480 5485 5490
 Ser Ser Thr Ser Glu Lys Thr Ser Ser Thr Thr Glu Thr Asn Thr
 5495 5500 5505
 Ala Phe Ser Tyr Val Pro Thr Gly Ala Ile Thr Gln Ala Ser Arg
 5510 5515 5520
 Thr Glu Ile Ser Ser Ser Arg Thr Ser Ile Ser Asp Leu Asp Arg
 5525 5530 5535
 Ser Thr Ile Ala Pro Asp Ile Ser Thr Gly Met Ile Thr Arg Leu
 5540 5545 5550
 Phe Thr Ser Pro Ile Met Thr Lys Ser Ala Glu Met Thr Val Thr
 5555 5560 5565
 Thr Gln Thr Thr Thr Pro Gly Ala Thr Ser Gln Gly Ile Leu Pro
 5570 5575 5580
 Trp Asp Thr Ser Thr Thr Leu Phe Gln Gly Gly Thr His Ser Thr
 5585 5590 5595
 Val Ser Gln Gly Phe Pro His Ser Glu Ile Thr Thr Leu Arg Ser
 5600 5605 5610
 Arg Thr Pro Gly Asp Val Ser Trp Met Thr Thr Pro Pro Val Glu
 5615 5620 5625
 Glu Thr Ser Ser Gly Phe Ser Leu Met Ser Pro Ser Met Thr Ser
 5630 5635 5640
 Pro Ser Pro Val Ser Ser Thr Ser Pro Glu Ser Ile Pro Ser Ser
 5645 5650 5655
 Pro Leu Pro Val Thr Ala Leu Leu Thr Ser Val Leu Val Thr Thr
 5660 5665 5670
 Thr Asn Val Leu Gly Thr Thr Ser Pro Glu Pro Val Thr Ser Ser
 5675 5680 5685

Pro Pro Asn Leu Ser Ser Pro Thr Gln Glu Arg Leu Thr Thr Tyr
 5690 5695 5700
 Lys Asp Thr Ala His Thr Glu Ala Met His Ala Ser Met His Thr
 5705 5710 5715
 Asn Thr Ala Val Ala Asn Val Gly Thr Ser Ile Ser Gly His Glu
 5720 5725 5730
 Ser Gln Ser Ser Val Pro Ala Asp Ser His Thr Ser Lys Ala Thr
 5735 5740 5745
 Ser Pro Met Gly Ile Thr Phe Ala Met Gly Asp Thr Ser Val Tyr
 5750 5755 5760
 Thr Ser Thr Pro Ala Phe Phe Glu Thr Arg Ile Gln Ser Glu Ser
 5765 5770 5775
 Thr Ser Ser Leu Ile Pro Gly Leu Arg Asp Thr Arg Thr Ser Glu
 5780 5785 5790
 Glu Ile Asn Thr Val Thr Glu Thr Ser Thr Val Leu Ser Glu Val
 5795 5800 5805
 Pro Thr Thr Thr Thr Thr Glu Val Ser Arg Thr Glu Val Ile Thr
 5810 5815 5820
 Ser Ser Arg Thr Thr Ile Ser Gly Pro Asp His Ser Lys Met Ser
 5825 5830 5835
 Pro Tyr Ile Ser Thr Glu Thr Ile Thr Arg Leu Ser Thr Phe Pro
 5840 5845 5850
 Phe Val Thr Gly Ser Thr Glu Met Ala Ile Thr Asn Gln Thr Gly
 5855 5860 5865
 Pro Ile Gly Thr Ile Ser Gln Ala Thr Leu Thr Leu Asp Thr Ser
 5870 5875 5880
 Ser Thr Ala Ser Trp Glu Gly Thr His Ser Pro Val Thr Gln Arg
 5885 5890 5895
 Phe Pro His Ser Glu Glu Thr Thr Thr Met Ser Arg Ser Thr Lys
 5900 5905 5910
 Gly Val Ser Trp Gln Ser Pro Pro Ser Val Glu Glu Thr Ser Ser

5915					5920					5925
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5930						5935				Ser
										5940
										His
										Ser
										Ser
Leu	Tyr	Ser	Ala	Val	Ser	Gly	Ser	Ser	Pro	Thr
5945						5950				Ser
										5955
										Ala
										Leu
										Pro
Val	Thr	Ser	Leu	Leu	Thr	Ser	Gly	Arg	Arg	Lys
5960						5965				Thr
										5970
										Ile
										Asp
										Met
Leu	Asp	Thr	His	Ser	Glu	Leu	Val	Thr	Ser	Ser
5975						5980				Leu
										5985
										Pro
										Ser
										Ala
Ser	Ser	Phe	Ser	Gly	Glu	Ile	Leu	Thr	Ser	Glu
5990						5995				Ala
										6000
										Ser
										Thr
										Asn
Thr	Glu	Thr	Ile	His	Phe	Ser	Glu	Asn	Thr	Ala
6005						6010				Glu
										6015
										Thr
										Asn
										Met
Gly	Thr	Thr	Asn	Ser	Met	His	Lys	Leu	His	Ser
6020						6025				Ser
										6030
										Val
										Ser
										Ile
His	Ser	Gln	Pro	Ser	Gly	His	Thr	Pro	Pro	Lys
6035						6040				Val
										6045
										Thr
										Gly
										Ser
Met	Met	Glu	Asp	Ala	Ile	Val	Ser	Thr	Ser	Thr
6050						6055				Pro
										6060
										Gly
										Ser
										Pro
Glu	Thr	Lys	Asn	Val	Asp	Arg	Asp	Ser	Thr	Ser
6065						6070				Pro
										6075
										Leu
										Thr
										Pro
Glu	Leu	Lys	Glu	Asp	Ser	Thr	Ala	Leu	Val	Met
6080						6085				Asn
										6090
										Ser
										Thr
										Thr
Glu	Ser	Asn	Thr	Val	Phe	Ser	Ser	Val	Ser	Leu
6095						6100				Asp
										6105
										Ala
										Ala
										Thr
Glu	Val	Ser	Arg	Ala	Glu	Val	Thr	Tyr	Tyr	Asp
6110						6115				Pro
										6120
										Thr
										Phe
										Met
Pro	Ala	Ser	Ala	Gln	Ser	Thr	Lys	Ser	Pro	Asp
6125						6130				Ile
										6135
										Ser
										Pro
										Glu
Ala	Ser	Ser	Ser	His	Ser	Asn	Ser	Pro	Pro	Leu
6140						6145				Thr
										6150
										Ile
										Ser
										Thr

His Lys Thr Ile Ala Thr Gln Thr Gly Pro Ser Gly Val Thr Ser
 6155 6160 6165
 Leu Gly Gln Leu Thr Leu Asp Thr Ser Thr Ile Ala Thr Ser Ala
 6170 6175 6180
 Gly Thr Pro Ser Ala Arg Thr Gln Asp Phe Val Asp Ser Glu Thr
 6185 6190 6195
 Thr Ser Val Met Asn Asn Asp Leu Asn Asp Val Leu Lys Thr Ser
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 Pro Phe Ser Ala Glu Glu Ala Asn Ser Leu Ser Ser Gln Ala Pro
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 Leu Leu Val Thr Thr Ser Pro Ser Pro Val Thr Ser Thr Leu Gln
 6230 6235 6240
 Glu His Ser Thr Ser Ser Leu Val Ser Val Thr Ser Val Pro Thr
 6245 6250 6255
 Pro Thr Leu Ala Lys Ile Thr Asp Met Asp Thr Asn Leu Glu Pro
 6260 6265 6270
 Val Thr Arg Ser Pro Gln Asn Leu Arg Asn Thr Leu Ala Thr Ser
 6275 6280 6285
 Glu Ala Thr Thr Asp Thr His Thr Met His Pro Ser Ile Asn Thr
 6290 6295 6300
 Ala Met Ala Asn Val Gly Thr Thr Ser Ser Pro Asn Glu Phe Tyr
 6305 6310 6315
 Phe Thr Val Ser Pro Asp Ser Asp Pro Tyr Lys Ala Thr Ser Ala
 6320 6325 6330
 Val Val Ile Thr Ser Thr Ser Gly Asp Ser Ile Val Ser Thr Ser
 6335 6340 6345
 Met Pro Arg Ser Ser Ala Met Lys Lys Ile Glu Ser Glu Thr Thr
 6350 6355 6360
 Phe Ser Leu Ile Phe Arg Leu Arg Glu Thr Ser Thr Ser Gln Lys
 6365 6370 6375
 Ile Gly Ser Ser Ser Asp Thr Ser Thr Val Phe Asp Lys Ala Phe
 6380 6385 6390

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Thr Ala Ala Thr Thr Glu Val Ser Arg Thr Glu Leu Thr Ser Ser
 6395 6400 6405
 Ser Arg Thr Ser Ile Gln Gly Thr Glu Lys Pro Thr Met Ser Pro
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 Asp Thr Ser Thr Arg Ser Val Thr Met Leu Ser Thr Phe Ala Gly
 6425 6430 6435
 Leu Thr Lys Ser Glu Glu Arg Thr Ile Ala Thr Gln Thr Gly Pro
 6440 6445 6450
 His Arg Ala Thr Ser Gln Gly Thr Leu Thr Trp Asp Thr Ser Ile
 6455 6460 6465
 Thr Thr Ser Gln Ala Gly Thr His Ser Ala Met Thr His Gly Phe
 6470 6475 6480
 Ser Gln Leu Asp Leu Ser Thr Leu Thr Ser Arg Val Pro Glu Tyr
 6485 6490 6495
 Ile Ser Gly Thr Ser Pro Pro Ser Val Glu Lys Thr Ser Ser Ser
 6500 6505 6510
 Ser Ser Leu Leu Ser Leu Pro Ala Ile Thr Ser Pro Ser Pro Val
 6515 6520 6525
 Pro Thr Thr Leu Pro Glu Ser Arg Pro Ser Ser Pro Val His Leu
 6530 6535 6540
 Thr Ser Leu Pro Thr Ser Gly Leu Val Lys Thr Thr Asp Met Leu
 6545 6550 6555
 Ala Ser Val Ala Ser Leu Pro Pro Asn Leu Gly Ser Thr Ser His
 6560 6565 6570
 Lys Ile Pro Thr Thr Ser Glu Asp Ile Lys Asp Thr Glu Lys Met
 6575 6580 6585
 Tyr Pro Ser Thr Asn Ile Ala Val Thr Asn Val Gly Thr Thr Thr
 6590 6595 6600
 Ser Glu Lys Glu Ser Tyr Ser Ser Val Pro Ala Tyr Ser Glu Pro
 6605 6610 6615
 Pro Lys Val Thr Ser Pro Met Val Thr Ser Phe Asn Ile Arg Asp
 6620 6625 6630

Thr Ile Val Ser Thr Ser Met Pro Gly Ser Ser Glu Ile Thr Arg
 6635 6640 6645
 Ile Glu Met Glu Ser Thr Phe Ser Leu Ala His Gly Leu Lys Gly
 6650 6655 6660
 Thr Ser Thr Ser Gln Asp Pro Ile Val Ser Thr Glu Lys Ser Ala
 6665 6670 6675
 Val Leu His Lys Leu Thr Thr Gly Ala Thr Glu Thr Ser Arg Thr
 6680 6685 6690
 Glu Val Ala Ser Ser Arg Arg Thr Ser Ile Pro Gly Pro Asp His
 6695 6700 6705
 Ser Thr Glu Ser Pro Asp Ile Ser Thr Glu Val Ile Pro Ser Leu
 6710 6715 6720
 Pro Ile Ser Leu Gly Ile Thr Glu Ser Ser Asn Met Thr Ile Ile
 6725 6730 6735
 Thr Arg Thr Gly Pro Pro Leu Gly Ser Thr Ser Gln Gly Thr Phe
 6740 6745 6750
 Thr Leu Asp Thr Pro Thr Thr Ser Ser Arg Ala Gly Thr His Ser
 6755 6760 6765
 Met Ala Thr Gln Glu Phe Pro His Ser Glu Met Thr Thr Val Met
 6770 6775 6780
 Asn Lys Asp Pro Glu Ile Leu Ser Trp Thr Ile Pro Pro Ser Ile
 6785 6790 6795
 Glu Lys Thr Ser Phe Ser Ser Ser Leu Met Pro Ser Pro Ala Met
 6800 6805 6810
 Thr Ser Pro Pro Val Ser Ser Thr Leu Pro Lys Thr Ile His Thr
 6815 6820 6825
 Thr Pro Ser Pro Met Thr Ser Leu Leu Thr Pro Ser Leu Val Met
 6830 6835 6840
 Thr Thr Asp Thr Leu Gly Thr Ser Pro Glu Pro Thr Thr Ser Ser
 6845 6850 6855
 Pro Pro Asn Leu Ser Ser Thr Ser His Val Ile Leu Thr Thr Asp

6860						6865						6870
Glu	Asp	Thr	Thr	Ala	Ile	Glu	Ala	Met	His	Pro	Ser	Thr
6875						6880					6885	
Ala	Ala	Thr	Asn	Val	Glu	Thr	Thr	Cys	Ser	Gly	His	Gly
6890						6895					6900	
Ser	Ser	Val	Leu	Thr	Asp	Ser	Glu	Lys	Thr	Lys	Ala	Thr
6905						6910					6915	
Met	Asp	Thr	Thr	Ser	Thr	Met	Gly	His	Thr	Thr	Val	Ser
6920						6925					6930	
Met	Ser	Val	Ser	Ser	Glu	Thr	Thr	Lys	Ile	Lys	Arg	Glu
6935						6940					6945	
Tyr	Ser	Leu	Thr	Pro	Gly	Leu	Arg	Glu	Thr	Ser	Ile	Ser
6950						6955					6960	
Ala	Ser	Phe	Ser	Thr	Asp	Thr	Ser	Ile	Val	Leu	Ser	Glu
6965						6970					6975	
Thr	Gly	Thr	Thr	Ala	Glu	Val	Ser	Arg	Thr	Glu	Val	Thr
6980						6985					6990	
Gly	Arg	Thr	Ser	Ile	Pro	Gly	Pro	Ser	Gln	Ser	Thr	Val
6995						7000					7005	
Glu	Ile	Ser	Thr	Arg	Thr	Met	Thr	Arg	Leu	Phe	Ala	Ser
7010						7015					7020	
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7025						7030					7035	
Ser	Gly	Ser	Thr	Ser	Gln	Asp	Thr	Leu	Thr	Leu	Asp	Thr
7040						7045					7050	
Thr	Lys	Ser	Gln	Ala	Lys	Thr	His	Ser	Thr	Leu	Thr	Gln
7055						7060					7065	
Pro	His	Ser	Glu	Met	Thr	Thr	Leu	Met	Ser	Arg	Gly	Pro
7070						7075					7080	
Met	Ser	Trp	Gln	Ser	Ser	Pro	Ser	Leu	Glu	Asn	Pro	Ser
7085						7090					7095	

Pro Ser Leu Leu Ser Leu Pro Ala Thr Thr Ser Pro Pro Pro Ile
 7100 7105 7110
 Ser Ser Thr Leu Pro Val Thr Ile Ser Ser Ser Pro Leu Pro Val
 7115 7120 7125
 Thr Ser Leu Leu Thr Ser Ser Pro Val Thr Thr Thr Asp Met Leu
 7130 7135 7140
 His Thr Ser Pro Glu Leu Val Thr Ser Ser Pro Pro Lys Leu Ser
 7145 7150 7155
 His Thr Ser Asp Glu Arg Leu Thr Thr Gly Lys Asp Thr Thr Asn
 7160 7165 7170
 Thr Glu Ala Val His Pro Ser Thr Asn Thr Ala Ala Ser Asn Val
 7175 7180 7185
 Glu Ile Pro Ser Phe Gly His Glu Ser Pro Ser Ser Ala Leu Ala
 7190 7195 7200
 Asp Ser Glu Thr Ser Lys Ala Thr Ser Pro Met Phe Ile Thr Ser
 7205 7210 7215
 Thr Gln Glu Asp Thr Thr Val Ala Ile Ser Thr Pro His Phe Leu
 7220 7225 7230
 Glu Thr Ser Arg Ile Gln Lys Glu Ser Ile Ser Ser Leu Ser Pro
 7235 7240 7245
 Lys Leu Arg Glu Thr Gly Ser Ser Val Glu Thr Ser Ser Ala Ile
 7250 7255 7260
 Glu Thr Ser Ala Val Leu Ser Glu Val Ser Ile Gly Ala Thr Thr
 7265 7270 7275
 Glu Ile Ser Arg Thr Glu Val Thr Ser Ser Ser Arg Thr Ser Ile
 7280 7285 7290
 Ser Gly Ser Ala Glu Ser Thr Met Leu Pro Glu Ile Ser Thr Thr
 7295 7300 7305
 Arg Lys Ile Ile Lys Phe Pro Thr Ser Pro Ile Leu Ala Glu Ser
 7310 7315 7320
 Ser Glu Met Thr Ile Lys Thr Gln Thr Ser Pro Pro Gly Ser Thr
 7325 7330 7335

Ser Glu Ser Thr Phe Thr Leu Asp Thr Ser Thr Thr Pro Ser Leu
 7340 7345 7350
 Val Ile Thr His Ser Thr Met Thr Gln Arg Leu Pro His Ser Glu
 7355 7360 7365
 Ile Thr Thr Leu Val Ser Arg Gly Ala Gly Asp Val Pro Arg Pro
 7370 7375 7380
 Ser Ser Leu Pro Val Glu Glu Thr Ser Pro Pro Ser Ser Gln Leu
 7385 7390 7395
 Ser Leu Ser Ala Met Ile Ser Pro Ser Pro Val Ser Ser Thr Leu
 7400 7405 7410
 Pro Ala Ser Ser His Ser Ser Ser Ala Ser Val Thr Ser Pro Leu
 7415 7420 7425
 Thr Pro Gly Gln Val Lys Thr Thr Glu Val Leu Asp Ala Ser Ala
 7430 7435 7440
 Glu Pro Glu Thr Ser Ser Pro Pro Ser Leu Ser Ser Thr Ser Val
 7445 7450 7455
 Glu Ile Leu Ala Thr Ser Glu Val Thr Thr Asp Thr Glu Lys Ile
 7460 7465 7470
 His Pro Phe Pro Asn Thr Ala Val Thr Lys Val Gly Thr Ser Ser
 7475 7480 7485
 Ser Gly His Glu Ser Pro Ser Ser Val Leu Pro Asp Ser Glu Thr
 7490 7495 7500
 Thr Lys Ala Thr Ser Ala Met Gly Thr Ile Ser Ile Met Gly Asp
 7505 7510 7515
 Thr Ser Val Ser Thr Leu Thr Pro Ala Leu Ser Asn Thr Arg Lys
 7520 7525 7530
 Ile Gln Ser Glu Pro Ala Ser Ser Leu Thr Thr Arg Leu Arg Glu
 7535 7540 7545
 Thr Ser Thr Ser Glu Glu Thr Ser Leu Ala Thr Glu Ala Asn Thr
 7550 7555 7560
 Val Leu Ser Lys Val Ser Thr Gly Ala Thr Thr Glu Val Ser Arg
 7565 7570 7575

Thr Glu Ala Ile Ser Phe Ser Arg Thr Ser Met Ser Gly Pro Glu
 7580 7585 7590
 Gln Ser Thr Met Ser Gln Asp Ile Ser Ile Gly Thr Ile Pro Arg
 7595 7600 7605
 Ile Ser Ala Ser Ser Val Leu Thr Glu Ser Ala Lys Met Thr Ile
 7610 7615 7620
 Thr Thr Gln Thr Gly Pro Ser Glu Ser Thr Leu Glu Ser Thr Leu
 7625 7630 7635
 Asn Leu Asn Thr Ala Thr Thr Pro Ser Trp Val Glu Thr His Ser
 7640 7645 7650
 Ile Val Ile Gln Gly Phe Pro His Pro Glu Met Thr Thr Ser Met
 7655 7660 7665
 Gly Arg Gly Pro Gly Gly Val Ser Trp Pro Ser Pro Pro Phe Val
 7670 7675 7680
 Lys Glu Thr Ser Pro Pro Ser Ser Pro Leu Ser Leu Pro Ala Val
 7685 7690 7695
 Thr Ser Pro His Pro Val Ser Thr Thr Phe Leu Ala His Ile Pro
 7700 7705 7710
 Pro Ser Pro Leu Pro Val Thr Ser Leu Leu Thr Ser Gly Pro Ala
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 Thr Thr Thr Asp Ile Leu Gly Thr Ser Thr Glu Pro Gly Thr Ser
 7730 7735 7740
 Ser Ser Ser Ser Leu Ser Thr Thr Ser His Glu Arg Leu Thr Thr
 7745 7750 7755
 Tyr Lys Asp Thr Ala His Thr Glu Ala Val His Pro Ser Thr Asn
 7760 7765 7770
 Thr Gly Gly Thr Asn Val Ala Thr Thr Ser Ser Gly Tyr Lys Ser
 7775 7780 7785
 Gln Ser Ser Val Leu Ala Asp Ser Ser Pro Met Cys Thr Thr Ser
 7790 7795 7800
 Thr Met Gly Asp Thr Ser Val Leu Thr Ser Thr Pro Ala Phe Leu
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7805						7810						7815
Glu Thr	Arg Arg	Ile Gln	Thr	Glu Leu	Ala Ser	Ser	Leu Thr	Pro				
7820			7825			7830						
Gly Leu	Arg Glu	Ser Ser	Gly	Ser Glu	Gly Thr	Ser	Ser Gly	Thr				
7835			7840			7845						
Lys Met	Ser Thr	Val Leu	Ser	Lys Val	Pro Thr	Gly	Ala Thr	Thr				
7850			7855			7860						
Glu Ile	Ser Lys	Glu Asp	Val	Thr Ser	Ile Pro	Gly	Pro Ala	Gln				
7865			7870			7875						
Ser Thr	Ile Ser	Pro Asp	Thr	Ser Thr	Arg Thr	Val	Ser Trp	Phe				
7880			7885			7890						
Ser Thr	Ser Pro	Val Met	Thr	Glu Ser	Ala Glu	Ile	Thr Met	Asn				
7895			7900			7905						
Thr His	Thr Ser	Pro Leu	Gly	Ala Thr	Thr Gln	Gly	Thr Ser	Thr				
7910			7915			7920						
Leu Asp	Thr Ser	Ser Thr	Thr	Ser Leu	Thr Met	Thr	His Ser	Thr				
7925			7930			7935						
Ile Ser	Gln Gly	Phe Ser	His	Ser Gln	Met Ser	Thr	Leu Met	Arg				
7940			7945			7950						
Arg Gly	Pro Glu	Asp Val	Ser	Trp Met	Ser Pro	Pro	Leu Leu	Glu				
7955			7960			7965						
Lys Thr	Arg Pro	Ser Phe	Ser	Leu Met	Ser Ser	Pro	Ala Thr	Thr				
7970			7975			7980						
Ser Pro	Ser Pro	Val Ser	Ser	Thr Leu	Pro Glu	Ser	Ile Ser	Ser				
7985			7990			7995						
Ser Pro	Leu Pro	Val Thr	Ser	Leu Leu	Thr Ser	Gly	Leu Ala	Lys				
8000			8005			8010						
Thr Thr	Asp Met	Leu His	Lys	Ser Ser	Glu Pro	Val	Thr Asn	Ser				
8015			8020			8025						
Pro Ala	Asn Leu	Ser Ser	Thr	Ser Val	Glu Ile	Leu	Ala Thr	Ser				
8030			8035			8040						

Glu Val Thr Thr Asp Thr Glu Lys Thr His Pro Ser Ser Asn Arg
 8045 8050 8055
 Thr Val Thr Asp Val Gly Thr Ser Ser Ser Gly His Glu Ser Thr
 8060 8065 8070
 Ser Phe Val Leu Ala Asp Ser Gln Thr Ser Lys Val Thr Ser Pro
 8075 8080 8085
 Met Val Ile Thr Ser Thr Met Glu Asp Thr Ser Val Ser Thr Ser
 8090 8095 8100
 Thr Pro Gly Phe Phe Glu Thr Ser Arg Ile Gln Thr Glu Pro Thr
 8105 8110 8115
 Ser Ser Leu Thr Leu Gly Leu Arg Lys Thr Ser Ser Ser Glu Gly
 8120 8125 8130
 Thr Ser Leu Ala Thr Glu Met Ser Thr Val Leu Ser Gly Val Pro
 8135 8140 8145
 Thr Gly Ala Thr Ala Glu Val Ser Arg Thr Glu Val Thr Ser Ser
 8150 8155 8160
 Ser Arg Thr Ser Ile Ser Gly Phe Ala Gln Leu Thr Val Ser Pro
 8165 8170 8175
 Glu Thr Ser Thr Glu Thr Ile Thr Arg Leu Pro Thr Ser Ser Ile
 8180 8185 8190
 Met Thr Glu Ser Ala Glu Met Met Ile Lys Thr Gln Thr Asp Pro
 8195 8200 8205
 Pro Gly Ser Thr Pro Glu Ser Thr His Thr Val Asp Ile Ser Thr
 8210 8215 8220
 Thr Pro Asn Trp Val Glu Thr His Ser Thr Val Thr Gln Arg Phe
 8225 8230 8235
 Ser His Ser Glu Met Thr Thr Leu Val Ser Arg Ser Pro Gly Asp
 8240 8245 8250
 Met Leu Trp Pro Ser Gln Ser Ser Val Glu Glu Thr Ser Ser Ala
 8255 8260 8265
 Ser Ser Leu Leu Ser Leu Pro Ala Thr Thr Ser Pro Ser Pro Val
 8270 8275 8280

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Ser Ser Thr Leu Val Glu Asp Phe Pro Ser Ala Ser Leu Pro Val
 8285 8290 8295
 Thr Ser Leu Leu Thr Pro Gly Leu Val Ile Thr Thr Asp Arg Met
 8300 8305 8310
 Gly Ile Ser Arg Glu Pro Gly Thr Ser Ser Thr Ser Asn Leu Ser
 8315 8320 8325
 Ser Thr Ser His Glu Arg Leu Thr Thr Leu Glu Asp Thr Val Asp
 8330 8335 8340
 Thr Glu Ala Met Gln Pro Ser Thr His Thr Ala Val Thr Asn Val
 8345 8350 8355
 Arg Thr Ser Ile Ser Gly His Glu Ser Gln Ser Ser Val Leu Ser
 8360 8365 8370
 Asp Ser Glu Thr Pro Lys Ala Thr Ser Ser Met Gly Thr Thr Tyr
 8375 8380 8385
 Thr Met Gly Glu Thr Ser Val Ser Ile Ser Thr Ser Asp Phe Phe
 8390 8395 8400
 Glu Thr Ser Arg Val Gln Ile Glu Pro Thr Ser Ser Leu Thr Ser
 8405 8410 8415
 Gly Leu Arg Glu Thr Ser Ser Ser Glu Arg Ile Ser Ser Ala Thr
 8420 8425 8430
 Glu Gly Ser Thr Val Leu Ser Glu Val Pro Ser Gly Ala Thr Thr
 8435 8440 8445
 Glu Val Ser Arg Thr Glu Val Ile Ser Ser Arg Gly Thr Ser Met
 8450 8455 8460
 Ser Gly Pro Asp Gln Phe Thr Ile Ser Pro Asp Ile Ser Thr Glu
 8465 8470 8475
 Ala Ile Thr Arg Leu Ser Thr Ser Pro Ile Met Thr Glu Ser Ala
 8480 8485 8490
 Glu Ser Ala Ile Thr Ile Glu Thr Gly Ser Pro Gly Ala Thr Ser
 8495 8500 8505
 Glu Gly Thr Leu Thr Leu Asp Thr Ser Thr Thr Thr Phe Trp Ser
 8510 8515 8520

Gly Thr His Ser Thr Ala Ser Pro Gly Phe Ser His Ser Glu Met
 8525 8530 8535
 Thr Thr Leu Met Ser Arg Thr Pro Gly Asp Val Pro Trp Pro Ser
 8540 8545 8550
 Leu Pro Ser Val Glu Glu Ala Ser Ser Val Ser Ser Ser Leu Ser
 8555 8560 8565
 Ser Pro Ala Met Thr Ser Thr Ser Phe Phe Ser Ala Leu Pro Glu
 8570 8575 8580
 Ser Ile Ser Ser Ser Pro His Pro Val Thr Ala Leu Leu Thr Leu
 8585 8590 8595
 Gly Pro Val Lys Thr Thr Asp Met Leu Arg Thr Ser Ser Glu Pro
 8600 8605 8610
 Glu Thr Ser Ser Pro Pro Asn Leu Ser Ser Thr Ser Ala Glu Ile
 8615 8620 8625
 Leu Ala Thr Ser Glu Val Thr Lys Asp Arg Glu Lys Ile His Pro
 8630 8635 8640
 Ser Ser Asn Thr Pro Val Val Asn Val Gly Thr Val Ile Tyr Lys
 8645 8650 8655
 His Leu Ser Pro Ser Ser Val Leu Ala Asp Leu Val Thr Thr Lys
 8660 8665 8670
 Pro Thr Ser Pro Met Ala Thr Thr Ser Thr Leu Gly Asn Thr Ser
 8675 8680 8685
 Val Ser Thr Ser Thr Pro Ala Phe Pro Glu Thr Met Met Thr Gln
 8690 8695 8700
 Pro Thr Ser Ser Leu Thr Ser Gly Leu Arg Glu Ile Ser Thr Ser
 8705 8710 8715
 Gln Glu Thr Ser Ser Ala Thr Glu Arg Ser Ala Ser Leu Ser Gly
 8720 8725 8730
 Met Pro Thr Gly Ala Thr Thr Lys Val Ser Arg Thr Glu Ala Leu
 8735 8740 8745
 Ser Leu Gly Arg Thr Ser Thr Pro Gly Pro Ala Gln Ser Thr Ile
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8750					8755					8760
Ser	Pro	Glu	Ile	Ser	Thr	Glu	Thr	Ile	Thr	Arg
8765						8770				Ile
	Ser	Thr	Pro							
Leu	Thr	Thr	Thr	Gly	Ser	Ala	Glu	Met	Thr	Ile
8780						8785				Thr
	Pro	Lys	Thr							
Gly	His	Ser	Gly	Ala	Ser	Ser	Gln	Gly	Thr	Phe
8795						8800				Thr
	Leu	Asp	Thr							
Ser	Ser	Arg	Ala	Ser	Trp	Pro	Gly	Thr	His	Ser
8810						8815				Ala
	Ala	Thr	His							
Arg	Ser	Pro	His	Ser	Gly	Met	Thr	Thr	Pro	Met
8825						8830				Ser
	Arg	Gly	Pro							
Glu	Asp	Val	Ser	Trp	Pro	Ser	Arg	Pro	Ser	Val
8840						8845				Glu
	Lys	Thr	Ser							
Pro	Pro	Ser	Ser	Leu	Val	Ser	Leu	Ser	Ala	Val
8855						8860				Thr
	Ser	Pro	Ser							
Pro	Leu	Tyr	Ser	Thr	Pro	Ser	Glu	Ser	Ser	His
8870						8875				Ser
	Ser	Pro	Leu							
Arg	Val	Thr	Ser	Leu	Phe	Thr	Pro	Val	Met	Met
8885						8890				Lys
	Thr	Thr	Asp							
Met	Leu	Asp	Thr	Ser	Leu	Glu	Pro	Val	Thr	Thr
8900						8905				Ser
	Pro	Pro	Ser							
Met	Asn	Ile	Thr	Ser	Asp	Glu	Ser	Leu	Ala	Thr
8915						8920				Ser
	Lys	Ala	Thr							
Met	Glu	Thr	Glu	Ala	Ile	Gln	Leu	Ser	Glu	Asn
8930						8935				Thr
	Ala	Val	Thr							
Gln	Met	Gly	Thr	Ile	Ser	Ala	Arg	Gln	Glu	Phe
8945						8950				Tyr
	Ser	Ser	Tyr							
Pro	Gly	Leu	Pro	Glu	Pro	Ser	Lys	Val	Thr	Ser
8960						8965				Pro
	Val	Val	Thr							
Ser	Ser	Thr	Ile	Lys	Asp	Ile	Val	Ser	Thr	Thr
8975						8980				Ile
	Pro	Ala	Ser							

Ser Glu Ile Thr Arg Ile Glu Met Glu Ser Thr Ser Thr Leu Thr
 8990 8995 9000
 Pro Thr Pro Arg Glu Thr Ser Thr Ser Gln Glu Ile His Ser Ala
 9005 9010 9015
 Thr Lys Pro Ser Thr Val Pro Tyr Lys Ala Leu Thr Ser Ala Thr
 9020 9025 9030
 Ile Glu Asp Ser Met Thr Gln Val Met Ser Ser Ser Arg Gly Pro
 9035 9040 9045
 Ser Pro Asp Gln Ser Thr Met Ser Gln Asp Ile Ser Thr Glu Val
 9050 9055 9060
 Ile Thr Arg Leu Ser Thr Ser Pro Ile Lys Ala Glu Ser Thr Glu
 9065 9070 9075
 Met Thr Ile Thr Thr Gln Thr Gly Ser Pro Gly Ala Thr Ser Arg
 9080 9085 9090
 Gly Thr Leu Thr Leu Asp Thr Ser Thr Thr Phe Met Ser Gly Thr
 9095 9100 9105
 His Ser Thr Ala Ser Gln Gly Phe Ser His Ser Gln Met Thr Ala
 9110 9115 9120
 Leu Met Ser Arg Thr Pro Gly Asp Val Pro Trp Leu Ser His Pro
 9125 9130 9135
 Ser Val Glu Glu Ala Ser Ser Ala Ser Phe Ser Leu Ser Ser Pro
 9140 9145 9150
 Val Met Thr Ser Ser Ser Pro Val Ser Ser Thr Leu Pro Asp Ser
 9155 9160 9165
 Ile His Ser Ser Ser Leu Pro Val Thr Ser Leu Leu Thr Ser Gly
 9170 9175 9180
 Leu Val Lys Thr Thr Glu Leu Leu Gly Thr Ser Ser Glu Pro Glu
 9185 9190 9195
 Thr Ser Ser Pro Pro Asn Leu Ser Ser Thr Ser Ala Glu Ile Leu
 9200 9205 9210
 Ala Thr Thr Glu Val Thr Thr Asp Thr Glu Lys Leu Glu Met Thr
 9215 9220 9225

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Asn Val Val Thr Ser Gly Tyr Thr His Glu Ser Pro Ser Ser Val
9230 9235 9240

Leu Ala Asp Ser Val Thr Thr Lys Ala Thr Ser Ser Met Gly Ile
9245 9250 9255

Thr Tyr Pro Thr Gly Asp Thr Asn Val Leu Thr Ser Thr Pro Ala
9260 9265 9270

Phe Ser Asp Thr Ser Arg Ile Gln Thr Lys Ser Lys Leu Ser Leu
9275 9280 9285

Thr Pro Gly Leu Met Glu Thr Ser Ile Ser Glu Glu Thr Ser Ser
9290 9295 9300

Ala Thr Glu Lys Ser Thr Val Leu Ser Ser Val Pro Thr Gly Ala
9305 9310 9315

Thr Thr Glu Val Ser Arg Thr Glu Ala Ile Ser Ser Ser Arg Thr
9320 9325 9330

Ser Ile Pro Gly Pro Ala Gln Ser Thr Met Ser Ser Asp Thr Ser
9335 9340 9345

Met Glu Thr Ile Thr Arg Ile Ser Thr Pro Leu Thr Arg Lys Glu
9350 9355 9360

Ser Thr Asp Met Ala Ile Thr Pro Lys Thr Gly Pro Ser Gly Ala
9365 9370 9375

Thr Ser Gln Gly Thr Phe Thr Leu Asp Ser Ser Ser Thr Ala Ser
9380 9385 9390

Trp Pro Gly Thr His Ser Ala Thr Thr Gln Arg Phe Pro Gln Ser
9395 9400 9405

Val Val Thr Thr Pro Met Ser Arg Gly Pro Glu Asp Val Ser Trp
9410 9415 9420

Pro Ser Pro Leu Ser Val Glu Lys Asn Ser Pro Pro Ser Ser Leu
9425 9430 9435

Val Ser Ser Ser Ser Val Thr Ser Pro Ser Pro Leu Tyr Ser Thr
9440 9445 9450

Pro Ser Gly Ser Ser His Ser Ser Pro Val Pro Val Thr Ser Leu
9455 9460 9465

Phe Thr Ser Ile Met Met Lys Ala Thr Asp Met Leu Asp Ala Ser
 9470 9475 9480
 Leu Glu Pro Glu Thr Thr Ser Ala Pro Asn Met Asn Ile Thr Ser
 9485 9490 9495
 Asp Glu Ser Leu Ala Thr Ser Lys Ala Thr Thr Glu Thr Glu Ala
 9500 9505 9510
 Ile His Val Phe Glu Asn Thr Ala Ala Ser His Val Glu Thr Thr
 9515 9520 9525
 Ser Ala Thr Glu Glu Leu Tyr Ser Ser Ser Pro Gly Phe Ser Glu
 9530 9535 9540
 Pro Thr Lys Val Ile Ser Pro Val Val Thr Ser Ser Ser Ile Arg
 9545 9550 9555
 Asp Asn Met Val Ser Thr Thr Met Pro Gly Ser Ser Gly Ile Thr
 9560 9565 9570
 Arg Ile Glu Ile Glu Ser Met Ser Ser Leu Thr Pro Gly Leu Arg
 9575 9580 9585
 Glu Thr Arg Thr Ser Gln Asp Ile Thr Ser Ser Thr Glu Thr Ser
 9590 9595 9600
 Thr Val Leu Tyr Lys Met Ser Ser Gly Ala Thr Pro Glu Val Ser
 9605 9610 9615
 Arg Thr Glu Val Met Pro Ser Ser Arg Thr Ser Ile Pro Gly Pro
 9620 9625 9630
 Ala Gln Ser Thr Met Ser Leu Asp Ile Ser Asp Glu Val Val Thr
 9635 9640 9645
 Arg Leu Ser Thr Ser Pro Ile Met Thr Glu Ser Ala Glu Ile Thr
 9650 9655 9660
 Ile Thr Thr Gln Thr Gly Tyr Ser Leu Ala Thr Ser Gln Val Thr
 9665 9670 9675
 Leu Pro Leu Gly Thr Ser Met Thr Phe Leu Ser Gly Thr His Ser
 9680 9685 9690
 Thr Met Ser Gln Gly Leu Ser His Ser Glu Met Thr Asn Leu Met

9695

9700

9705

Ser Arg Gly Pro Glu Ser Leu Ser Trp Thr Ser Pro Arg Phe Val
9710 9715 9720

Glu Thr Thr Arg Ser Ser Ser Ser Leu Thr Ser Leu Pro Leu Thr
9725 9730 9735

Thr Ser Leu Ser Pro Val Ser Ser Thr Leu Leu Asp Ser Ser Pro
9740 9745 9750

Ser Ser Pro Leu Pro Val Thr Ser Leu Ile Leu Pro Gly Leu Val
9755 9760 9765

Lys Thr Thr Glu Val Leu Asp Thr Ser Ser Glu Pro Lys Thr Ser
9770 9775 9780

Ser Ser Pro Asn Leu Ser Ser Thr Ser Val Glu Ile Pro Ala Thr
9785 9790 9795

Ser Glu Ile Met Thr Asp Thr Glu Lys Ile His Pro Ser Ser Asn
9800 9805 9810

Thr Ala Val Ala Lys Val Arg Thr Ser Ser Ser Val His Glu Ser
9815 9820 9825

His Ser Ser Val Leu Ala Asp Ser Glu Thr Thr Ile Thr Ile Pro
9830 9835 9840

Ser Met Gly Ile Thr Ser Ala Val Asp Asp Thr Thr Val Phe Thr
9845 9850 9855

Ser Asn Pro Ala Phe Ser Glu Thr Arg Arg Ile Pro Thr Glu Pro
9860 9865 9870

Thr Phe Ser Leu Thr Pro Gly Phe Arg Glu Thr Ser Thr Ser Glu
9875 9880 9885

Glu Thr Thr Ser Ile Thr Glu Thr Ser Ala Val Leu Tyr Gly Val
9890 9895 9900

Pro Thr Ser Ala Thr Thr Glu Val Ser Met Thr Glu Ile Met Ser
9905 9910 9915

Ser Asn Arg Thr His Ile Pro Asp Ser Asp Gln Ser Thr Met Ser
9920 9925 9930

Pro Asp Ile Ile Thr Glu Val Ile Thr Arg Leu Ser Ser Ser Ser
 9935 9940 9945

 Met Met Ser Glu Ser Thr Gln Met Thr Ile Thr Thr Gln Lys Ser
 9950 9955 9960

 Ser Pro Gly Ala Thr Ala Gln Ser Thr Leu Thr Leu Ala Thr Thr
 9965 9970 9975

 Thr Ala Pro Leu Ala Arg Thr His Ser Thr Val Pro Pro Arg Phe
 9980 9985 9990

 Leu His Ser Glu Met Thr Thr Leu Met Ser Arg Ser Pro Glu Asn
 9995 10000 10005

 Pro Ser Trp Lys Ser Ser Pro Phe Val Glu Lys Thr Ser Ser Ser
 10010 10015 10020

 Ser Ser Leu Leu Ser Leu Pro Val Thr Thr Ser Pro Ser Val Ser
 10025 10030 10035

 Ser Thr Leu Pro Gln Ser Ile Pro Ser Ser Ser Phe Ser Val Thr
 10040 10045 10050

 Ser Leu Leu Thr Pro Gly Met Val Lys Thr Thr Asp Thr Ser Thr
 10055 10060 10065

 Glu Pro Gly Thr Ser Leu Ser Pro Asn Leu Ser Gly Thr Ser Val
 10070 10075 10080

 Glu Ile Leu Ala Ala Ser Glu Val Thr Thr Asp Thr Glu Lys Ile
 10085 10090 10095

 His Pro Ser Ser Ser Met Ala Val Thr Asn Val Gly Thr Thr Ser
 10100 10105 10110

 Ser Gly His Glu Leu Tyr Ser Ser Val Ser Ile His Ser Glu Pro
 10115 10120 10125

 Ser Lys Ala Thr Tyr Pro Val Gly Thr Pro Ser Ser Met Ala Glu
 10130 10135 10140

 Thr Ser Ile Ser Thr Ser Met Pro Ala Asn Phe Glu Thr Thr Gly
 10145 10150 10155

 Phe Glu Ala Glu Pro Phe Ser His Leu Thr Ser Gly Phe Arg Lys
 10160 10165 10170

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Thr	Asn	Met	Ser	Leu	Asp	Thr	Ser	Ser	Val	Thr	Pro	Thr	Asn	Thr
	10175					10180					10185			
Pro	Ser	Ser	Pro	Gly	Ser	Thr	His	Leu	Leu	Gln	Ser	Ser	Lys	Thr
	10190					10195					10200			
Asp	Phe	Thr	Ser	Ser	Ala	Lys	Thr	Ser	Ser	Pro	Asp	Trp	Pro	Pro
	10205					10210					10215			
Ala	Ser	Gln	Tyr	Thr	Glu	Ile	Pro	Val	Asp	Ile	Ile	Thr	Pro	Phe
	10220					10225					10230			
Asn	Ala	Ser	Pro	Ser	Ile	Thr	Glu	Ser	Thr	Gly	Ile	Thr	Ser	Phe
	10235					10240					10245			
Pro	Glu	Ser	Arg	Phe	Thr	Met	Ser	Val	Thr	Glu	Ser	Thr	His	His
	10250					10255					10260			
Leu	Ser	Thr	Asp	Leu	Leu	Pro	Ser	Ala	Glu	Thr	Ile	Ser	Thr	Gly
	10265					10270					10275			
Thr	Val	Met	Pro	Ser	Leu	Ser	Glu	Ala	Met	Thr	Ser	Phe	Ala	Thr
	10280					10285					10290			
Thr	Gly	Val	Pro	Arg	Ala	Ile	Ser	Gly	Ser	Gly	Ser	Pro	Phe	Ser
	10295					10300					10305			
Arg	Thr	Glu	Ser	Gly	Pro	Gly	Asp	Ala	Thr	Leu	Ser	Thr	Ile	Ala
	10310					10315					10320			
Glu	Ser	Leu	Pro	Ser	Ser	Thr	Pro	Val	Pro	Phe	Ser	Ser	Ser	Thr
	10325					10330					10335			
Phe	Thr	Thr	Thr	Asp	Ser	Ser	Thr	Ile	Pro	Ala	Leu	His	Glu	Ile
	10340					10345					10350			
Thr	Ser	Ser	Ser	Ala	Thr	Pro	Tyr	Arg	Val	Asp	Thr	Ser	Leu	Gly
	10355					10360					10365			
Thr	Glu	Ser	Ser	Thr	Thr	Glu	Gly	Arg	Leu	Val	Met	Val	Ser	Thr
	10370					10375					10380			
Leu	Asp	Thr	Ser	Ser	Gln	Pro	Gly	Arg	Thr	Ser	Ser	Thr	Pro	Ile
	10385					10390					10395			
Leu	Asp	Thr	Arg	Met	Thr	Glu	Ser	Val	Glu	Leu	Gly	Thr	Val	Thr
	10400					10405					10410			

Ser Ala Tyr Gln Val Pro Ser Leu Ser Thr Arg Leu Thr Arg Thr
 10415 10420 10425
 Asp Gly Ile Met Glu His Ile Thr Lys Ile Pro Asn Glu Ala Ala
 10430 10435 10440
 His Arg Gly Thr Ile Arg Pro Val Lys Gly Pro Gln Thr Ser Thr
 10445 10450 10455
 Ser Pro Ala Ser Pro Lys Gly Leu His Thr Gly Gly Thr Lys Arg
 10460 10465 10470
 Met Glu Thr Thr Thr Thr Ala Leu Lys Thr Thr Thr Thr Ala Leu
 10475 10480 10485
 Lys Thr Thr Ser Arg Ala Thr Leu Thr Thr Ser Val Tyr Thr Pro
 10490 10495 10500
 Thr Leu Gly Thr Leu Thr Pro Leu Asn Ala Ser Arg Gln Met Ala
 10505 10510 10515
 Ser Thr Ile Leu Thr Glu Met Met Ile Thr Thr Pro Tyr Val Phe
 10520 10525 10530
 Pro Asp Val Pro Glu Thr Thr Ser Ser Leu Ala Thr Ser Leu Gly
 10535 10540 10545
 Ala Glu Thr Ser Thr Ala Leu Pro Arg Thr Thr Pro Ser Val Leu
 10550 10555 10560
 Asn Arg Glu Ser Glu Thr Thr Ala Ser Leu Val Ser Arg Ser Gly
 10565 10570 10575
 Ala Glu Arg Ser Pro Val Ile Gln Thr Leu Asp Val Ser Ser Ser
 10580 10585 10590
 Glu Pro Asp Thr Thr Ala Ser Trp Val Ile His Pro Ala Glu Thr
 10595 10600 10605
 Ile Pro Thr Val Ser Lys Thr Thr Pro Asn Phe Phe His Ser Glu
 10610 10615 10620
 Leu Asp Thr Val Ser Ser Thr Ala Thr Ser His Gly Ala Asp Val
 10625 10630 10635
 Ser Ser Ala Ile Pro Thr Asn Ile Ser Pro Ser Glu Leu Asp Ala

10640

Leu Thr 10655	Pro Leu Val Thr	Ile 10660	Ser Gly Thr Asp	Thr 10665	Ser Thr Thr
Phe Pro 10670	Thr Leu Thr Lys	Ser 10675	Pro His Glu Thr	Glu 10680	Thr Arg Thr
Thr Trp 10685	Leu Thr His Pro	Ala 10690	Glu Thr Ser Ser	Thr 10695	Ile Pro Arg
Thr Ile 10700	Pro Asn Phe Ser	His 10705	His Glu Ser Asp	Ala 10710	Thr Pro Ser
Ile Ala 10715	Thr Ser Pro Gly	Ala 10720	Glu Thr Ser Ser	Ala 10725	Ile Pro Ile
Met Thr 10730	Val Ser Pro Gly	Ala 10735	Glu Asp Leu Val	Thr 10740	Ser Gln Val
Thr Ser 10745	Ser Gly Thr Asp	Arg 10750	Asn Met Thr Ile	Pro 10755	Thr Leu Thr
Leu Ser 10760	Pro Gly Glu Pro	Lys 10765	Thr Ile Ala Ser	Leu 10770	Val Thr His
Pro Glu 10775	Ala Gln Thr Ser	Ser 10780	Ala Ile Pro Thr	Ser 10785	Thr Ile Ser
Pro Ala 10790	Val Ser Arg Leu	Val 10795	Thr Ser Met Val	Thr 10800	Ser Leu Ala
Ala Lys 10805	Thr Ser Thr Thr	Asn 10810	Arg Ala Leu Thr	Asn 10815	Ser Pro Gly
Glu Pro 10820	Ala Thr Thr Val	Ser 10825	Leu Val Thr His	Pro 10830	Ala Gln Thr
Ser Pro 10835	Thr Val Pro Trp	Thr 10840	Thr Ser Ile Phe	Phe 10845	His Ser Lys
Ser Asp 10850	Thr Thr Pro Ser	Met 10855	Thr Thr Ser His	Gly 10860	Ala Glu Ser
Ser Ser 10865	Ala Val Pro Thr	Pro 10870	Thr Val Ser Thr	Glu 10875	Val Pro Gly

Val Val Thr Pro Leu Val Thr Ser Ser Arg Ala Val Ile Ser Thr
 10880 10885 10890
 Thr Ile Pro Ile Leu Thr Leu Ser Pro Gly Glu Pro Glu Thr Thr
 10895 10900 10905
 Pro Ser Met Ala Thr Ser His Gly Glu Glu Ala Ser Ser Ala Ile
 10910 10915 10920
 Pro Thr Pro Thr Val Ser Pro Gly Val Pro Gly Val Val Thr Ser
 10925 10930 10935
 Leu Val Thr Ser Ser Arg Ala Val Thr Ser Thr Thr Ile Pro Ile
 10940 10945 10950
 Leu Thr Phe Ser Leu Gly Glu Pro Glu Thr Thr Pro Ser Met Ala
 10955 10960 10965
 Thr Ser His Gly Thr Glu Ala Gly Ser Ala Val Pro Thr Val Leu
 10970 10975 10980
 Pro Glu Val Pro Gly Met Val Thr Ser Leu Val Ala Ser Ser Arg
 10985 10990 10995
 Ala Val Thr Ser Thr Thr Leu Pro Thr Leu Thr Leu Ser Pro Gly
 11000 11005 11010
 Glu Pro Glu Thr Thr Pro Ser Met Ala Thr Ser His Gly Ala Glu
 11015 11020 11025
 Ala Ser Ser Thr Val Pro Thr Val Ser Pro Glu Val Pro Gly Val
 11030 11035 11040
 Val Thr Ser Leu Val Thr Ser Ser Ser Gly Val Asn Ser Thr Ser
 11045 11050 11055
 Ile Pro Thr Leu Ile Leu Ser Pro Gly Glu Leu Glu Thr Thr Pro
 11060 11065 11070
 Ser Met Ala Thr Ser His Gly Ala Glu Ala Ser Ser Ala Val Pro
 11075 11080 11085
 Thr Pro Thr Val Ser Pro Gly Val Ser Gly Val Val Thr Pro Leu
 11090 11095 11100
 Val Thr Ser Ser Arg Ala Val Thr Ser Thr Thr Ile Pro Ile Leu
 11105 11110 11115

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Thr	Leu	Ser	Ser	Ser	Glu	Pro	Glu	Thr	Thr	Pro	Ser	Met	Ala	Thr
	11120					11125					11130			
Ser	His	Gly	Val	Glu	Ala	Ser	Ser	Ala	Val	Leu	Thr	Val	Ser	Pro
	11135					11140					11145			
Glu	Val	Pro	Gly	Met	Val	Thr	Ser	Leu	Val	Thr	Ser	Ser	Arg	Ala
	11150					11155					11160			
Val	Thr	Ser	Thr	Thr	Ile	Pro	Thr	Leu	Thr	Ile	Ser	Ser	Asp	Glu
	11165					11170					11175			
Pro	Glu	Thr	Thr	Thr	Ser	Leu	Val	Thr	His	Ser	Glu	Ala	Lys	Met
	11180					11185					11190			
Ile	Ser	Ala	Ile	Pro	Thr	Leu	Ala	Val	Ser	Pro	Thr	Val	Gln	Gly
	11195					11200					11205			
Leu	Val	Thr	Ser	Leu	Val	Thr	Ser	Ser	Gly	Ser	Glu	Thr	Ser	Ala
	11210					11215					11220			
Phe	Ser	Asn	Leu	Thr	Val	Ala	Ser	Ser	Gln	Pro	Glu	Thr	Ile	Asp
	11225					11230					11235			
Ser	Trp	Val	Ala	His	Pro	Gly	Thr	Glu	Ala	Ser	Ser	Val	Val	Pro
	11240					11245					11250			
Thr	Leu	Thr	Val	Ser	Thr	Gly	Glu	Pro	Phe	Thr	Asn	Ile	Ser	Leu
	11255					11260					11265			
Val	Thr	His	Pro	Ala	Glu	Ser	Ser	Ser	Thr	Leu	Pro	Arg	Thr	Thr
	11270					11275					11280			
Ser	Arg	Phe	Ser	His	Ser	Glu	Leu	Asp	Thr	Met	Pro	Ser	Thr	Val
	11285					11290					11295			
Thr	Ser	Pro	Glu	Ala	Glu	Ser	Ser	Ser	Ala	Ile	Ser	Thr	Thr	Ile
	11300					11305					11310			
Ser	Pro	Gly	Ile	Pro	Gly	Val	Leu	Thr	Ser	Leu	Val	Thr	Ser	Ser
	11315					11320					11325			
Gly	Arg	Asp	Ile	Ser	Ala	Thr	Phe	Pro	Thr	Val	Pro	Glu	Ser	Pro
	11330					11335					11340			
His	Glu	Ser	Glu	Ala	Thr	Ala	Ser	Trp	Val	Thr	His	Pro	Ala	Val
	11345					11350					11355			

Thr	Ser	Thr	Thr	Val	Pro	Arg	Thr	Thr	Pro	Asn	Tyr	Ser	His	Ser
	11360					11365					11370			
Glu	Pro	Asp	Thr	Thr	Pro	Ser	Ile	Ala	Thr	Ser	Pro	Gly	Ala	Glu
	11375					11380					11385			
Ala	Thr	Ser	Asp	Phe	Pro	Thr	Ile	Thr	Val	Ser	Pro	Asp	Val	Pro
	11390					11395					11400			
Asp	Met	Val	Thr	Ser	Gln	Val	Thr	Ser	Ser	Gly	Thr	Asp	Thr	Ser
	11405					11410					11415			
Ile	Thr	Ile	Pro	Thr	Leu	Thr	Leu	Ser	Ser	Gly	Glu	Pro	Glu	Thr
	11420					11425					11430			
Thr	Thr	Ser	Phe	Ile	Thr	Tyr	Ser	Glu	Thr	His	Thr	Ser	Ser	Ala
	11435					11440					11445			
Ile	Pro	Thr	Leu	Pro	Val	Ser	Pro	Gly	Ala	Ser	Lys	Met	Leu	Thr
	11450					11455					11460			
Ser	Leu	Val	Ile	Ser	Ser	Gly	Thr	Asp	Ser	Thr	Thr	Thr	Phe	Pro
	11465					11470					11475			
Thr	Leu	Thr	Glu	Thr	Pro	Tyr	Glu	Pro	Glu	Thr	Thr	Ala	Ile	Gln
	11480					11485					11490			
Leu	Ile	His	Pro	Ala	Glu	Thr	Asn	Thr	Met	Val	Pro	Arg	Thr	Thr
	11495					11500					11505			
Pro	Lys	Phe	Ser	His	Ser	Lys	Ser	Asp	Thr	Thr	Leu	Pro	Val	Ala
	11510					11515					11520			
Ile	Thr	Ser	Pro	Gly	Pro	Glu	Ala	Ser	Ser	Ala	Val	Ser	Thr	Thr
	11525					11530					11535			
Thr	Ile	Ser	Pro	Asp	Met	Ser	Asp	Leu	Val	Thr	Ser	Leu	Val	Pro
	11540					11545					11550			
Ser	Ser	Gly	Thr	Asp	Thr	Ser	Thr	Thr	Phe	Pro	Thr	Leu	Ser	Glu
	11555					11560					11565			
Thr	Pro	Tyr	Glu	Pro	Glu	Thr	Thr	Ala	Thr	Trp	Leu	Thr	His	Pro
	11570					11575					11580			
Ala	Glu	Thr	Ser	Thr	Thr	Val	Ser	Gly	Thr	Ile	Pro	Asn	Phe	Ser

11585

His	Arg	Gly	Ser	Asp	Thr	Ala	Pro	Ser	Met	Val	Thr	Ser	Pro	Gly
	11600					11605					11610			
Val	Asp	Thr	Arg	Ser	Gly	Val	Pro	Thr	Thr	Thr	Ile	Pro	Pro	Ser
	11615					11620					11625			
Ile	Pro	Gly	Val	Val	Thr	Ser	Gln	Val	Thr	Ser	Ser	Ala	Thr	Asp
	11630					11635					11640			
Thr	Ser	Thr	Ala	Ile	Pro	Thr	Leu	Thr	Pro	Ser	Pro	Gly	Glu	Pro
	11645					11650					11655			
Glu	Thr	Thr	Ala	Ser	Ser	Ala	Thr	His	Pro	Gly	Thr	Gln	Thr	Gly
	11660					11665					11670			
Phe	Thr	Val	Pro	Ile	Arg	Thr	Val	Pro	Ser	Ser	Glu	Pro	Asp	Thr
	11675					11680					11685			
Met	Ala	Ser	Trp	Val	Thr	His	Pro	Pro	Gln	Thr	Ser	Thr	Pro	Val
	11690					11695					11700			
Ser	Arg	Thr	Thr	Ser	Ser	Phe	Ser	His	Ser	Ser	Pro	Asp	Ala	Thr
	11705					11710					11715			
Pro	Val	Met	Ala	Thr	Ser	Pro	Arg	Thr	Glu	Ala	Ser	Ser	Ala	Val
	11720					11725					11730			
Leu	Thr	Thr	Ile	Ser	Pro	Gly	Ala	Pro	Glu	Met	Val	Thr	Ser	Gln
	11735					11740					11745			
Ile	Thr	Ser	Ser	Gly	Ala	Ala	Thr	Ser	Thr	Thr	Val	Pro	Thr	Leu
	11750					11755					11760			
Thr	His	Ser	Pro	Gly	Met	Pro	Glu	Thr	Thr	Ala	Leu	Leu	Ser	Thr
	11765					11770					11775			
His	Pro	Arg	Thr	Glu	Thr	Ser	Lys	Thr	Phe	Pro	Ala	Ser	Thr	Val
	11780					11785					11790			
Phe	Pro	Gln	Val	Ser	Glu	Thr	Thr	Ala	Ser	Leu	Thr	Ile	Arg	Pro
	11795					11800					11805			
Gly	Ala	Glu	Thr	Ser	Thr	Ala	Leu	Pro	Thr	Gln	Thr	Thr	Ser	Ser
	11810					11815					11820			

Leu Phe Thr Leu Leu Val Thr Gly Thr Ser Arg Val Asp Leu Ser
 11825 11830 11835
 Pro Thr Ala Ser Pro Gly Val Ser Ala Lys Thr Ala Pro Leu Ser
 11840 11845 11850
 Thr His Pro Gly Thr Glu Thr Ser Thr Met Ile Pro Thr Ser Thr
 11855 11860 11865
 Leu Ser Leu Gly Leu Leu Glu Thr Thr Gly Leu Leu Ala Thr Ser
 11870 11875 11880
 Ser Ser Ala Glu Thr Ser Thr Ser Thr Leu Thr Leu Thr Val Ser
 11885 11890 11895
 Pro Ala Val Ser Gly Leu Ser Ser Ala Ser Ile Thr Thr Asp Lys
 11900 11905 11910
 Pro Gln Thr Val Thr Ser Trp Asn Thr Glu Thr Ser Pro Ser Val
 11915 11920 11925
 Thr Ser Val Gly Pro Pro Glu Phe Ser Arg Thr Val Thr Gly Thr
 11930 11935 11940
 Thr Met Thr Leu Ile Pro Ser Glu Met Pro Thr Pro Pro Lys Thr
 11945 11950 11955
 Ser His Gly Glu Gly Val Ser Pro Thr Thr Ile Leu Arg Thr Thr
 11960 11965 11970
 Met Val Glu Ala Thr Asn Leu Ala Thr Thr Gly Ser Ser Pro Thr
 11975 11980 11985
 Val Ala Lys Thr Thr Thr Thr Phe Asn Thr Leu Ala Gly Ser Leu
 11990 11995 12000
 Phe Thr Pro Leu Thr Thr Pro Gly Met Ser Thr Leu Ala Ser Glu
 12005 12010 12015
 Ser Val Thr Ser Arg Thr Ser Tyr Asn His Arg Ser Trp Ile Ser
 12020 12025 12030
 Thr Thr Ser Ser Tyr Asn Arg Arg Tyr Trp Thr Pro Ala Thr Ser
 12035 12040 12045
 Thr Pro Val Thr Ser Thr Phe Ser Pro Gly Ile Ser Thr Ser Ser
 12050 12055 12060

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Ile	Pro	Ser	Ser	Thr	Ala	Ala	Thr	Val	Pro	Phe	Met	Val	Pro	Phe
	12065					12070					12075			
Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr	Glu	Glu	Asp	Met
	12080					12085					12090			
Arg	His	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Ala	Thr	Glu	Arg	Glu	Leu
	12095					12100					12105			
Gln	Gly	Leu	Leu	Lys	Pro	Leu	Phe	Arg	Asn	Ser	Ser	Leu	Glu	Tyr
	12110					12115					12120			
Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Ala	Ser	Leu	Arg	Pro	Glu	Lys	Asp
	12125					12130					12135			
Ser	Ser	Ala	Met	Ala	Val	Asp	Ala	Ile	Cys	Thr	His	Arg	Pro	Asp
	12140					12145					12150			
Pro	Glu	Asp	Leu	Gly	Leu	Asp	Arg	Glu	Arg	Leu	Tyr	Trp	Glu	Leu
	12155					12160					12165			
Ser	Asn	Leu	Thr	Asn	Gly	Ile	Gln	Glu	Leu	Gly	Pro	Tyr	Thr	Leu
	12170					12175					12180			
Asp	Arg	Asn	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Arg	Ser	Ser
	12185					12190					12195			
Met	Pro	Thr	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Thr	Val	Asp	Val	Gly
	12200					12205					12210			
Thr	Ser	Gly	Thr	Pro	Ser	Ser	Ser	Pro	Ser	Pro	Thr	Ala	Ala	Gly
	12215					12220					12225			
Pro	Leu	Leu	Met	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu
	12230					12235					12240			
Gln	Tyr	Glu	Glu	Asp	Met	Arg	Arg	Thr	Gly	Ser	Arg	Lys	Phe	Asn
	12245					12250					12255			
Thr	Met	Glu	Ser	Val	Leu	Gln	Gly	Leu	Leu	Lys	Pro	Leu	Phe	Lys
	12260					12265					12270			
Asn	Thr	Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu
	12275					12280					12285			
Leu	Arg	Pro	Glu	Lys	Asp	Gly	Ala	Ala	Thr	Gly	Val	Asp	Ala	Ile
	12290					12295					12300			

Cys	Thr	His	Arg	Leu	Asp	Pro	Lys	Ser	Pro	Gly	Leu	Asn	Arg	Glu
	12305					12310					12315			
Gln	Leu	Tyr	Trp	Glu	Leu	Ser	Lys	Leu	Thr	Asn	Asp	Ile	Glu	Glu
	12320					12325					12330			
Leu	Gly	Pro	Tyr	Thr	Leu	Asp	Arg	Asn	Ser	Leu	Tyr	Val	Asn	Gly
	12335					12340					12345			
Phe	Thr	His	Gln	Ser	Ser	Val	Ser	Thr	Thr	Ser	Thr	Pro	Gly	Thr
	12350					12355					12360			
Ser	Thr	Val	Asp	Leu	Arg	Thr	Ser	Gly	Thr	Pro	Ser	Ser	Leu	Ser
	12365					12370					12375			
Ser	Pro	Thr	Ile	Met	Ala	Ala	Gly	Pro	Leu	Leu	Val	Pro	Phe	Thr
	12380					12385					12390			
Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr	Gly	Glu	Asp	Met	Gly
	12395					12400					12405			
His	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln
	12410					12415					12420			
Gly	Leu	Leu	Gly	Pro	Ile	Phe	Lys	Asn	Thr	Ser	Val	Gly	Pro	Leu
	12425					12430					12435			
Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Ser	Leu	Arg	Ser	Glu	Lys	Asp	Gly
	12440					12445					12450			
Ala	Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys	Ile	His	His	Leu	Asp	Pro
	12455					12460					12465			
Lys	Ser	Pro	Gly	Leu	Asn	Arg	Glu	Arg	Leu	Tyr	Trp	Glu	Leu	Ser
	12470					12475					12480			
Gln	Leu	Thr	Asn	Gly	Ile	Lys	Glu	Leu	Gly	Pro	Tyr	Thr	Leu	Asp
	12485					12490					12495			
Arg	Asn	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Arg	Thr	Ser	Val
	12500					12505					12510			
Pro	Thr	Ser	Ser	Thr	Pro	Gly	Thr	Ser	Thr	Val	Asp	Leu	Gly	Thr
	12515					12520					12525			
Ser	Gly	Thr	Pro	Phe	Ser	Leu	Pro	Ser	Pro	Ala	Thr	Ala	Gly	Pro

12530

Leu	Leu	Val	Leu	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Lys
12545						12550					12555			
Tyr	Glu	Glu	Asp	Met	His	Arg	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr
12560						12565					12570			
Thr	Glu	Arg	Val	Leu	Gln	Thr	Leu	Leu	Gly	Pro	Met	Phe	Lys	Asn
12575						12580					12585			
Thr	Ser	Val	Gly	Leu	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu
12590						12595					12600			
Arg	Ser	Glu	Lys	Asp	Gly	Ala	Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys
12605						12610					12615			
Thr	His	Arg	Leu	Asp	Pro	Lys	Ser	Pro	Gly	Leu	Asp	Arg	Glu	Gln
12620						12625					12630			
Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu	Thr	Asn	Gly	Ile	Lys	Glu	Leu
12635						12640					12645			
Gly	Pro	Tyr	Thr	Leu	Asp	Arg	Asn	Ser	Leu	Tyr	Val	Asn	Gly	Phe
12650						12655					12660			
Thr	His	Trp	Ile	Pro	Val	Pro	Thr	Ser	Ser	Thr	Pro	Gly	Thr	Ser
12665						12670					12675			
Thr	Val	Asp	Leu	Gly	Ser	Gly	Thr	Pro	Ser	Ser	Leu	Pro	Ser	Pro
12680						12685					12690			
Thr	Ala	Ala	Gly	Pro	Leu	Leu	Val	Pro	Phe	Thr	Leu	Asn	Phe	Thr
12695						12700					12705			
Ile	Thr	Asn	Leu	Gln	Tyr	Glu	Glu	Asp	Met	His	His	Pro	Gly	Ser
12710						12715					12720			
Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Gly
12725						12730					12735			
Pro	Met	Phe	Lys	Asn	Thr	Ser	Val	Gly	Leu	Leu	Tyr	Ser	Gly	Cys
12740						12745					12750			
Arg	Leu	Thr	Leu	Leu	Arg	Ser	Glu	Lys	Asp	Gly	Ala	Ala	Thr	Gly
12755						12760					12765			

Val	Asp	Ala	Ile	Cys	Thr	His	Arg	Leu	Asp	Pro	Lys	Ser	Pro	Gly
	12770					12775					12780			
Val	Asp	Arg	Glu	Gln	Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu	Thr	Asn
	12785					12790					12795			
Gly	Ile	Lys	Glu	Leu	Gly	Pro	Tyr	Thr	Leu	Asp	Arg	Asn	Ser	Leu
	12800					12805					12810			
Tyr	Val	Asn	Gly	Phe	Thr	His	Gln	Thr	Ser	Ala	Pro	Asn	Thr	Ser
	12815					12820					12825			
Thr	Pro	Gly	Thr	Ser	Thr	Val	Asp	Leu	Gly	Thr	Ser	Gly	Thr	Pro
	12830					12835					12840			
Ser	Ser	Leu	Pro	Ser	Pro	Thr	Ser	Ala	Gly	Pro	Leu	Leu	Val	Pro
	12845					12850					12855			
Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr	Glu	Glu	Asp
	12860					12865					12870			
Met	Arg	His	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val
	12875					12880					12885			
Leu	Gln	Gly	Leu	Leu	Lys	Pro	Leu	Phe	Lys	Ser	Thr	Ser	Val	Gly
	12890					12895					12900			
Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Ser	Glu	Lys
	12905					12910					12915			
Asp	Gly	Ala	Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys	Thr	His	Arg	Leu
	12920					12925					12930			
Asp	Pro	Lys	Ser	Pro	Gly	Val	Asp	Arg	Glu	Gln	Leu	Tyr	Trp	Glu
	12935					12940					12945			
Leu	Ser	Gln	Leu	Thr	Asn	Gly	Ile	Lys	Glu	Leu	Gly	Pro	Tyr	Thr
	12950					12955					12960			
Leu	Asp	Arg	Asn	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Gln	Thr
	12965					12970					12975			
Ser	Ala	Pro	Asn	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Thr	Val	Asp	Leu
	12980					12985					12990			
Gly	Thr	Ser	Gly	Thr	Pro	Ser	Ser	Leu	Pro	Ser	Pro	Thr	Ser	Ala
	12995					13000					13005			

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Gly	Pro	Leu	Leu	Val	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn
	13010					13015					13020			
Leu	Gln	Tyr	Glu	Glu	Asp	Met	His	His	Pro	Gly	Ser	Arg	Lys	Phe
	13025					13030					13035			
Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Gly	Pro	Met	Phe
	13040					13045					13050			
Lys	Asn	Thr	Ser	Val	Gly	Leu	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr
	13055					13060					13065			
Leu	Leu	Arg	Pro	Glu	Lys	Asn	Gly	Ala	Ala	Thr	Gly	Met	Asp	Ala
	13070					13075					13080			
Ile	Cys	Ser	His	Arg	Leu	Asp	Pro	Lys	Ser	Pro	Gly	Leu	Asn	Arg
	13085					13090					13095			
Glu	Gln	Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu	Thr	His	Gly	Ile	Lys
	13100					13105					13110			
Glu	Leu	Gly	Pro	Tyr	Thr	Leu	Asp	Arg	Asn	Ser	Leu	Tyr	Val	Asn
	13115					13120					13125			
Gly	Phe	Thr	His	Arg	Ser	Ser	Val	Ala	Pro	Thr	Ser	Thr	Pro	Gly
	13130					13135					13140			
Thr	Ser	Thr	Val	Asp	Leu	Gly	Thr	Ser	Gly	Thr	Pro	Ser	Ser	Leu
	13145					13150					13155			
Pro	Ser	Pro	Thr	Thr	Ala	Val	Pro	Leu	Leu	Val	Pro	Phe	Thr	Leu
	13160					13165					13170			
Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr	Gly	Glu	Asp	Met	Arg	His
	13175					13180					13185			
Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly
	13190					13195					13200			
Leu	Leu	Gly	Pro	Leu	Phe	Lys	Asn	Ser	Ser	Val	Gly	Pro	Leu	Tyr
	13205					13210					13215			
Ser	Gly	Cys	Arg	Leu	Ile	Ser	Leu	Arg	Ser	Glu	Lys	Asp	Gly	Ala
	13220					13225					13230			
Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys	Thr	His	His	Leu	Asn	Pro	Gln
	13235					13240					13245			

Ser Pro Gly Leu Asp Arg Glu Gln Leu Tyr Trp Gln Leu Ser Gln
 13250 13255 13260
 Met Thr Asn Gly Ile Lys Glu Leu Gly Pro Tyr Thr Leu Asp Arg
 13265 13270 13275
 Asn Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser Gly Leu
 13280 13285 13290
 Thr Thr Ser Thr Pro Trp Thr Ser Thr Val Asp Leu Gly Thr Ser
 13295 13300 13305
 Gly Thr Pro Ser Pro Val Pro Ser Pro Thr Thr Ala Gly Pro Leu
 13310 13315 13320
 Leu Val Pro Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Gln Tyr
 13325 13330 13335
 Glu Glu Asp Met His Arg Pro Gly Ser Arg Lys Phe Asn Ala Thr
 13340 13345 13350
 Glu Arg Val Leu Gln Gly Leu Leu Ser Pro Ile Phe Lys Asn Ser
 13355 13360 13365
 Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr Ser Leu Arg
 13370 13375 13380
 Pro Glu Lys Asp Gly Ala Ala Thr Gly Met Asp Ala Val Cys Leu
 13385 13390 13395
 Tyr His Pro Asn Pro Lys Arg Pro Gly Leu Asp Arg Glu Gln Leu
 13400 13405 13410
 Tyr Trp Glu Leu Ser Gln Leu Thr His Asn Ile Thr Glu Leu Gly
 13415 13420 13425
 Pro Tyr Ser Leu Asp Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr
 13430 13435 13440
 His Gln Asn Ser Val Pro Thr Thr Ser Thr Pro Gly Thr Ser Thr
 13445 13450 13455
 Val Tyr Trp Ala Thr Thr Gly Thr Pro Ser Ser Phe Pro Gly His
 13460 13465 13470
 Thr Glu Pro Gly Pro Leu Leu Ile Pro Phe Thr Phe Asn Phe Thr

13475

Ile Thr 13490	Asn Leu His Tyr	Glu 13495	Glu Asn Met Gln His 13500	Pro Gly Ser
Arg Lys 13505	Phe Asn Thr Thr	Glu 13510	Arg Val Leu Gln Gly 13515	Leu Leu Lys
Pro Leu 13520	Phe Lys Asn Thr	Ser 13525	Val Gly Pro Leu Tyr 13530	Ser Gly Cys
Arg Leu 13535	Thr Ser Leu Arg	Pro 13540	Glu Lys Asp Gly Ala 13545	Ala Thr Gly
Met Asp 13550	Ala Val Cys Leu	Tyr 13555	His Pro Asn Pro Lys 13560	Arg Pro Gly
Leu Asp 13565	Arg Glu Gln Leu	Tyr 13570	Cys Glu Leu Ser Gln 13575	Leu Thr His
Asn Ile 13580	Thr Glu Leu Gly	Pro 13585	Tyr Ser Leu Asp Arg 13590	Asp Ser Leu
Tyr Val 13595	Asn Gly Phe Thr	His 13600	Gln Asn Ser Val Pro 13605	Thr Thr Ser
Thr Pro 13610	Gly Thr Ser Thr	Val 13615	Tyr Trp Ala Thr Thr 13620	Gly Thr Pro
Ser Ser 13625	Phe Pro Gly His	Thr 13630	Glu Pro Gly Pro Leu 13635	Leu Ile Pro
Phe Thr 13640	Phe Asn Phe Thr	Ile 13645	Thr Asn Leu His Tyr 13650	Glu Glu Asn
Met Gln 13655	His Pro Gly Ser	Arg 13660	Lys Phe Asn Thr Thr 13665	Glu Arg Val
Leu Gln 13670	Gly Leu Leu Lys	Pro 13675	Leu Phe Lys Asn Thr 13680	Ser Val Gly
Pro Leu 13685	Tyr Ser Gly Cys	Arg 13690	Leu Thr Leu Leu Arg 13695	Pro Glu Lys
His Glu 13700	Ala Ala Thr Gly	Val 13705	Asp Thr Ile Cys Thr 13710	His Arg Val

Asp Pro Ile Gly Pro Gly Leu Asp Arg Glu Arg Leu Tyr Trp Glu
 13715 13720 13725
 Leu Ser Gln Leu Thr Asn Ser Ile Thr Glu Leu Gly Pro Tyr Thr
 13730 13735 13740
 Leu Asp Arg Asp Ser Leu Tyr Val Asn Gly Phe Asn Pro Arg Ser
 13745 13750 13755
 Ser Val Pro Thr Thr Ser Thr Pro Gly Thr Ser Thr Val His Leu
 13760 13765 13770
 Ala Thr Ser Gly Thr Pro Ser Ser Leu Pro Gly His Thr Ala Pro
 13775 13780 13785
 Val Pro Leu Leu Ile Pro Phe Thr Leu Asn Phe Thr Ile Thr Asn
 13790 13795 13800
 Leu His Tyr Glu Glu Asn Met Gln His Pro Gly Ser Arg Lys Phe
 13805 13810 13815
 Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Lys Pro Leu Phe
 13820 13825 13830
 Lys Asn Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys Arg Leu Thr
 13835 13840 13845
 Leu Leu Arg Pro Glu Lys His Glu Ala Ala Thr Gly Val Asp Thr
 13850 13855 13860
 Ile Cys Thr His Arg Val Asp Pro Ile Gly Pro Gly Leu Asp Arg
 13865 13870 13875
 Glu Xaa Leu Tyr Trp Glu Leu Ser Xaa Leu Thr Xaa Xaa Ile Xaa
 13880 13885 13890
 Glu Leu Gly Pro Tyr Xaa Leu Asp Arg Xaa Ser Leu Tyr Val Asn
 13895 13900 13905
 Gly Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Ser Thr Pro Gly
 13910 13915 13920
 Thr Ser Xaa Val Xaa Leu Xaa Thr Ser Gly Thr Pro Xaa Xaa Xaa
 13925 13930 13935
 Pro Xaa Xaa Thr Ser Ala Gly Pro Leu Leu Val Pro Phe Thr Leu
 13940 13945 13950

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Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr	Glu	Glu	Asp	Met	His	His
	13955					13960					13965			
Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly
	13970					13975					13980			
Leu	Leu	Gly	Pro	Met	Phe	Lys	Asn	Thr	Ser	Val	Gly	Leu	Leu	Tyr
	13985					13990					13995			
Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro	Glu	Lys	Asn	Gly	Ala
	14000					14005					14010			
Ala	Thr	Gly	Met	Asp	Ala	Ile	Cys	Ser	His	Arg	Leu	Asp	Pro	Lys
	14015					14020					14025			
Ser	Pro	Gly	Leu	Asp	Arg	Glu	Gln	Leu	Tyr	Trp	Glu	Leu	Ser	Gln
	14030					14035					14040			
Leu	Thr	His	Gly	Ile	Lys	Glu	Leu	Gly	Pro	Tyr	Thr	Leu	Asp	Arg
	14045					14050					14055			
Asn	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Arg	Ser	Ser	Val	Ala
	14060					14065					14070			
Pro	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Thr	Val	Asp	Leu	Gly	Thr	Ser
	14075					14080					14085			
Gly	Thr	Pro	Ser	Ser	Leu	Pro	Ser	Pro	Thr	Thr	Ala	Val	Pro	Leu
	14090					14095					14100			
Leu	Val	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr
	14105					14110					14115			
Gly	Glu	Asp	Met	Arg	His	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr
	14120					14125					14130			
Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Gly	Pro	Leu	Phe	Lys	Asn	Ser
	14135					14140					14145			
Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Ile	Ser	Leu	Arg
	14150					14155					14160			
Ser	Glu	Lys	Asp	Gly	Ala	Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys	Thr
	14165					14170					14175			
His	His	Leu	Asn	Pro	Gln	Ser	Pro	Gly	Leu	Asp	Arg	Glu	Gln	Leu
	14180					14185					14190			

Tyr Trp Gln Leu Ser Gln Met Thr Asn Gly Ile Lys Glu Leu Gly
 14195 14200 14205
 Pro Tyr Thr Leu Asp Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr
 14210 14215 14220
 His Arg Ser Ser Gly Leu Thr Thr Ser Thr Pro Trp Thr Ser Thr
 14225 14230 14235
 Val Asp Leu Gly Thr Ser Gly Thr Pro Ser Pro Val Pro Ser Pro
 14240 14245 14250
 Thr Thr Ala Gly Pro Leu Leu Val Pro Phe Thr Leu Asn Phe Thr
 14255 14260 14265
 Ile Thr Asn Leu Gln Tyr Glu Glu Asp Met His Arg Pro Gly Ser
 14270 14275 14280
 Arg Lys Phe Asn Ala Thr Glu Arg Val Leu Gln Gly Leu Leu Ser
 14285 14290 14295
 Pro Ile Phe Lys Asn Ser Ser Val Gly Pro Leu Tyr Ser Gly Cys
 14300 14305 14310
 Arg Leu Thr Ser Leu Arg Pro Glu Lys Asp Gly Ala Ala Thr Gly
 14315 14320 14325
 Met Asp Ala Val Cys Leu Tyr His Pro Asn Pro Lys Arg Pro Gly
 14330 14335 14340
 Leu Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln Leu Thr His
 14345 14350 14355
 Asn Ile Thr Glu Leu Gly Pro Tyr Ser Leu Asp Arg Asp Ser Leu
 14360 14365 14370
 Tyr Val Asn Gly Phe Thr His Gln Ser Ser Met Thr Thr Thr Arg
 14375 14380 14385
 Thr Pro Asp Thr Ser Thr Met His Leu Ala Thr Ser Arg Thr Pro
 14390 14395 14400
 Ala Ser Leu Ser Gly Pro Thr Thr Ala Ser Pro Leu Leu Val Leu
 14405 14410 14415
 Phe Thr Ile Asn Cys Thr Ile Thr Asn Leu Gln Tyr Glu Glu Asp

14420

Met	Arg	Arg	Thr	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Met	Glu	Ser	Val
	14435					14440					14445			
Leu	Gln	Gly	Leu	Leu	Lys	Pro	Leu	Phe	Lys	Asn	Thr	Ser	Val	Gly
	14450					14455					14460			
Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro	Lys	Lys
	14465					14470					14475			
Asp	Gly	Ala	Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys	Thr	His	Arg	Leu
	14480					14485					14490			
Asp	Pro	Lys	Ser	Pro	Gly	Leu	Asn	Arg	Glu	Gln	Leu	Tyr	Trp	Glu
	14495					14500					14505			
Leu	Ser	Lys	Leu	Thr	Asn	Asp	Ile	Glu	Glu	Leu	Gly	Pro	Tyr	Thr
	14510					14515					14520			
Leu	Asp	Arg	Asn	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Gln	Ser
	14525					14530					14535			
Ser	Val	Ser	Thr	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Thr	Val	Asp	Leu
	14540					14545					14550			
Arg	Thr	Ser	Gly	Thr	Pro	Ser	Ser	Leu	Ser	Ser	Pro	Thr	Ile	Met
	14555					14560					14565			
Xaa	Xaa	Xaa	Pro	Leu	Leu	Xaa	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile
	14570					14575					14580			
Thr	Asn	Leu	Xaa	Tyr	Glu	Glu	Xaa	Met	Xaa	Xaa	Pro	Gly	Ser	Arg
	14585					14590					14595			
Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Arg	Pro
	14600					14605					14610			
Leu	Phe	Lys	Asn	Thr	Ser	Val	Ser	Ser	Leu	Tyr	Ser	Gly	Cys	Arg
	14615					14620					14625			
Leu	Thr	Leu	Leu	Arg	Pro	Glu	Lys	Asp	Gly	Ala	Ala	Thr	Arg	Val
	14630					14635					14640			
Asp	Ala	Ala	Cys	Thr	Tyr	Arg	Pro	Asp	Pro	Lys	Ser	Pro	Gly	Leu
	14645					14650					14655			

Asp Arg Glu Gln Leu Tyr Trp Glu Leu Ser Gln Leu Thr His Ser
 14660 14665 14670
 Ile Thr Glu Leu Gly Pro Tyr Thr Leu Asp Arg Val Ser Leu Tyr
 14675 14680 14685
 Val Asn Gly Phe Asn Pro Arg Ser Ser Val Pro Thr Thr Ser Thr
 14690 14695 14700
 Pro Gly Thr Ser Thr Val His Leu Ala Thr Ser Gly Thr Pro Ser
 14705 14710 14715
 Ser Leu Pro Gly His Thr Xaa Xaa Xaa Pro Leu Leu Xaa Pro Phe
 14720 14725 14730
 Thr Leu Asn Phe Thr Ile Thr Asn Leu Xaa Tyr Glu Glu Xaa Met
 14735 14740 14745
 Xaa Xaa Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu
 14750 14755 14760
 Gln Gly Leu Leu Lys Pro Leu Phe Arg Asn Ser Ser Leu Glu Tyr
 14765 14770 14775
 Leu Tyr Ser Gly Cys Arg Leu Ala Ser Leu Arg Pro Glu Lys Asp
 14780 14785 14790
 Ser Ser Ala Met Ala Val Asp Ala Ile Cys Thr His Arg Pro Asp
 14795 14800 14805
 Pro Glu Asp Leu Gly Leu Asp Arg Glu Arg Leu Tyr Trp Glu Leu
 14810 14815 14820
 Ser Asn Leu Thr Asn Gly Ile Gln Glu Leu Gly Pro Tyr Thr Leu
 14825 14830 14835
 Asp Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser Ser
 14840 14845 14850
 Phe Leu Thr Thr Ser Thr Pro Trp Thr Ser Thr Val Asp Leu Gly
 14855 14860 14865
 Thr Ser Gly Thr Pro Ser Pro Val Pro Ser Pro Thr Thr Ala Gly
 14870 14875 14880
 Pro Leu Leu Val Pro Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu
 14885 14890 14895

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Gln	Tyr	Glu	Glu	Asp	Met	His	Arg	Pro	Gly	Ser	Arg	Arg	Phe	Asn
	14900					14905					14910			
Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Thr	Pro	Leu	Phe	Lys
	14915					14920					14925			
Asn	Thr	Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu
	14930					14935					14940			
Leu	Arg	Pro	Glu	Lys	Gln	Glu	Ala	Ala	Thr	Gly	Val	Asp	Thr	Ile
	14945					14950					14955			
Cys	Thr	His	Arg	Val	Asp	Pro	Ile	Gly	Pro	Gly	Leu	Asp	Arg	Glu
	14960					14965					14970			
Arg	Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu	Thr	Asn	Ser	Ile	Thr	Glu
	14975					14980					14985			
Leu	Gly	Pro	Tyr	Thr	Leu	Asp	Arg	Asp	Ser	Leu	Tyr	Val	Asn	Gly
	14990					14995					15000			
Phe	Asn	Pro	Trp	Ser	Ser	Val	Pro	Thr	Thr	Ser	Thr	Pro	Gly	Thr
	15005					15010					15015			
Ser	Thr	Val	His	Leu	Ala	Thr	Ser	Gly	Thr	Pro	Ser	Ser	Leu	Pro
	15020					15025					15030			
Gly	His	Thr	Ala	Pro	Val	Pro	Leu	Leu	Ile	Pro	Phe	Thr	Leu	Asn
	15035					15040					15045			
Phe	Thr	Ile	Thr	Asp	Leu	His	Tyr	Glu	Glu	Asn	Met	Gln	His	Pro
	15050					15055					15060			
Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu
	15065					15070					15075			
Leu	Lys	Pro	Leu	Phe	Lys	Ser	Thr	Ser	Val	Gly	Pro	Leu	Tyr	Ser
	15080					15085					15090			
Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro	Glu	Lys	His	Gly	Ala	Ala
	15095					15100					15105			
Thr	Gly	Val	Asp	Ala	Ile	Cys	Thr	Leu	Arg	Leu	Asp	Pro	Thr	Gly
	15110					15115					15120			
Pro	Gly	Leu	Asp	Arg	Glu	Arg	Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu
	15125					15130					15135			

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Thr	Asn	Ser	Val	Thr	Glu	Leu	Gly	Pro	Tyr	Thr	Leu	Asp	Arg	Asp
	15140					15145					15150			
Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Arg	Ser	Ser	Val	Pro	Thr
	15155					15160					15165			
Thr	Ser	Ile	Pro	Gly	Thr	Ser	Ala	Val	His	Leu	Glu	Thr	Ser	Gly
	15170					15175					15180			
Thr	Pro	Ala	Ser	Leu	Pro	Gly	His	Thr	Ala	Pro	Gly	Pro	Leu	Leu
	15185					15190					15195			
Val	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr	Glu
	15200					15205					15210			
Glu	Asp	Met	Arg	His	Pro	Gly	Ser	Arg	Lys	Phe	Ser	Thr	Thr	Glu
	15215					15220					15225			
Arg	Val	Leu	Gln	Gly	Leu	Leu	Lys	Pro	Leu	Phe	Lys	Asn	Thr	Ser
	15230					15235					15240			
Val	Ser	Ser	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro
	15245					15250					15255			
Glu	Lys	Asp	Gly	Ala	Ala	Thr	Arg	Val	Asp	Ala	Val	Cys	Thr	His
	15260					15265					15270			
Arg	Pro	Asp	Pro	Lys	Ser	Pro	Gly	Leu	Asp	Arg	Glu	Arg	Leu	Tyr
	15275					15280					15285			
Trp	Lys	Leu	Ser	Gln	Leu	Thr	His	Gly	Ile	Thr	Glu	Leu	Gly	Pro
	15290					15295					15300			
Tyr	Thr	Leu	Asp	Arg	His	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His
	15305					15310					15315			
Gln	Ser	Ser	Met	Thr	Thr	Thr	Arg	Thr	Pro	Asp	Thr	Ser	Thr	Met
	15320					15325					15330			
His	Leu	Ala	Thr	Ser	Arg	Thr	Pro	Ala	Ser	Leu	Ser	Gly	Pro	Thr
	15335					15340					15345			
Thr	Ala	Ser	Pro	Leu	Leu	Val	Leu	Phe	Thr	Ile	Asn	Phe	Thr	Ile
	15350					15355					15360			
Thr	Asn	Gln	Arg	Tyr	Glu	Glu	Asn	Met	His	His	Pro	Gly	Ser	Arg

15365

Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Arg	Pro
	15380					15385					15390			
Val	Phe	Lys	Asn	Thr	Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys	Arg
	15395					15400					15405			
Leu	Thr	Leu	Leu	Arg	Pro	Lys	Lys	Asp	Gly	Ala	Ala	Thr	Lys	Val
	15410					15415					15420			
Asp	Ala	Ile	Cys	Thr	Tyr	Arg	Pro	Asp	Pro	Lys	Ser	Pro	Gly	Leu
	15425					15430					15435			
Asp	Arg	Glu	Gln	Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu	Thr	His	Ser
	15440					15445					15450			
Ile	Thr	Glu	Leu	Gly	Pro	Tyr	Thr	Gln	Asp	Arg	Asp	Ser	Leu	Tyr
	15455					15460					15465			
Val	Asn	Gly	Phe	Thr	His	Arg	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ile
	15470					15475					15480			
Pro	Gly	Thr	Ser	Ala	Val	His	Leu	Glu	Thr	Ser	Gly	Thr	Pro	Ala
	15485					15490					15495			
Ser	Leu	Pro	Gly	His	Thr	Ala	Pro	Gly	Pro	Leu	Leu	Val	Pro	Phe
	15500					15505					15510			
Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr	Glu	Glu	Asp	Met
	15515					15520					15525			
Arg	His	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu
	15530					15535					15540			
Gln	Gly	Leu	Leu	Lys	Pro	Leu	Phe	Lys	Ser	Thr	Ser	Val	Gly	Pro
	15545					15550					15555			
Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro	Glu	Lys	Arg
	15560					15565					15570			
Gly	Ala	Ala	Thr	Gly	Val	Asp	Thr	Ile	Cys	Thr	His	Arg	Leu	Asp
	15575					15580					15585			
Pro	Leu	Asn	Pro	Gly	Leu	Asp	Arg	Glu	Gln	Leu	Tyr	Trp	Glu	Leu
	15590					15595					15600			

Ser Lys 15605 Leu Thr Arg Gly Ile 15610 Ile Glu Leu Gly Pro 15615 Tyr Leu Leu
 Asp Arg 15620 Gly Ser Leu Tyr Val 15625 Asn Gly Phe Thr His 15630 Arg Thr Ser
 Val Pro 15635 Thr Thr Ser Thr Pro 15640 Gly Thr Ser Thr Val 15645 Asp Leu Gly
 Thr Ser 15650 Gly Thr Pro Phe Ser 15655 Leu Pro Ser Pro Ala 15660 Xaa Xaa Xaa
 Pro Leu 15665 Leu Xaa Pro Phe Thr 15670 Leu Asn Phe Thr Ile 15675 Thr Asn Leu
 Xaa Tyr 15680 Glu Glu Xaa Met Xaa 15685 Xaa Pro Gly Ser Arg 15690 Lys Phe Asn
 Thr Thr 15695 Glu Arg Val Leu Gln 15700 Thr Leu Leu Gly Pro 15705 Met Phe Lys
 Asn Thr 15710 Ser Val Gly Leu Leu 15715 Tyr Ser Gly Cys Arg 15720 Leu Thr Leu
 Leu Arg 15725 Ser Glu Lys Asp Gly 15730 Ala Ala Thr Gly Val 15735 Asp Ala Ile
 Cys Thr 15740 His Arg Leu Asp Pro 15745 Lys Ser Pro Gly Val 15750 Asp Arg Glu
 Gln Leu 15755 Tyr Trp Glu Leu Ser 15760 Gln Leu Thr Asn Gly 15765 Ile Lys Glu
 Leu Gly 15770 Pro Tyr Thr Leu Asp 15775 Arg Asn Ser Leu Tyr 15780 Val Asn Gly
 Phe Thr 15785 His Trp Ile Pro Val 15790 Pro Thr Ser Ser Thr 15795 Pro Gly Thr
 Ser Thr 15800 Val Asp Leu Gly Ser 15805 Gly Thr Pro Ser Leu 15810 Pro Ser Ser
 Pro Thr 15815 Thr Ala Gly Pro Leu 15820 Leu Val Pro Phe Thr 15825 Leu Asn Phe
 Thr Ile 15830 Thr Asn Leu Lys Tyr 15835 Glu Glu Asp Met His 15840 Cys Pro Gly

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Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Ser	Leu	Leu
	15845					15850					15855			
Gly	Pro	Met	Phe	Lys	Asn	Thr	Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly
	15860					15865					15870			
Cys	Arg	Leu	Thr	Leu	Leu	Arg	Ser	Glu	Lys	Asp	Gly	Ala	Ala	Thr
	15875					15880					15885			
Gly	Val	Asp	Ala	Ile	Cys	Thr	His	Arg	Leu	Asp	Pro	Lys	Ser	Pro
	15890					15895					15900			
Gly	Val	Asp	Arg	Glu	Gln	Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu	Thr
	15905					15910					15915			
Asn	Gly	Ile	Lys	Glu	Leu	Gly	Pro	Tyr	Thr	Leu	Asp	Arg	Asn	Ser
	15920					15925					15930			
Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Gln	Thr	Ser	Ala	Pro	Asn	Thr
	15935					15940					15945			
Ser	Thr	Pro	Gly	Thr	Ser	Thr	Val	Asp	Leu	Gly	Thr	Ser	Gly	Thr
	15950					15955					15960			
Pro	Ser	Ser	Leu	Pro	Ser	Pro	Thr	Xaa	Xaa	Xaa	Pro	Leu	Leu	Xaa
	15965					15970					15975			
Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Xaa	Tyr	Glu	Glu
	15980					15985					15990			
Xaa	Met	Xaa	Xaa	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg
	15995					16000					16005			
Val	Leu	Gln	Gly	Leu	Leu	Xaa	Pro	Xaa	Phe	Lys	Xaa	Thr	Ser	Val
	16010					16015					16020			
Gly	Xaa	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Xaa	Glu
	16025					16030					16035			
Lys	Xaa	Xaa	Ala	Ala	Thr	Xaa	Val	Asp	Xaa	Xaa	Cys	Xaa	Xaa	Xaa
	16040					16045					16050			
Xaa	Asp	Pro	Xaa	Xaa	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu	Tyr	Trp
	16055					16060					16065			
Glu	Leu	Ser	Xaa	Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly	Pro	Tyr
	16070					16075					16080			

Xaa	Leu 16085	Asp	Arg	Xaa	Ser	Leu 16090	Tyr	Val	Asn	Gly	Phe 16095	Thr	His	Trp
Ile	Pro 16100	Val	Pro	Thr	Ser	Ser 16105	Thr	Pro	Gly	Thr	Ser 16110	Thr	Val	Asp
Leu	Gly 16115	Ser	Gly	Thr	Pro	Ser 16120	Ser	Leu	Pro	Ser	Pro 16125	Thr	Thr	Ala
Gly	Pro 16130	Leu	Leu	Val	Pro	Phe 16135	Thr	Leu	Asn	Phe	Thr 16140	Ile	Thr	Asn
Leu	Lys 16145	Tyr	Glu	Glu	Asp	Met 16150	His	Cys	Pro	Gly	Ser 16155	Arg	Lys	Phe
Asn	Thr 16160	Thr	Glu	Arg	Val	Leu 16165	Gln	Ser	Leu	Leu	Gly 16170	Pro	Met	Phe
Lys	Asn 16175	Thr	Ser	Val	Gly	Pro 16180	Leu	Tyr	Ser	Gly	Cys 16185	Arg	Leu	Thr
Ser	Leu 16190	Arg	Ser	Glu	Lys	Asp 16195	Gly	Ala	Ala	Thr	Gly 16200	Val	Asp	Ala
Ile	Cys 16205	Thr	His	Arg	Val	Asp 16210	Pro	Lys	Ser	Pro	Gly 16215	Val	Asp	Arg
Glu	Gln 16220	Leu	Tyr	Trp	Glu	Leu 16225	Ser	Gln	Leu	Thr	Asn 16230	Gly	Ile	Lys
Glu	Leu 16235	Gly	Pro	Tyr	Thr	Leu 16240	Asp	Arg	Asn	Ser	Leu 16245	Tyr	Val	Asn
Gly	Phe 16250	Thr	His	Gln	Thr	Ser 16255	Ala	Pro	Asn	Thr	Ser 16260	Thr	Pro	Gly
Thr	Ser 16265	Thr	Val	Asp	Leu	Gly 16270	Thr	Ser	Gly	Thr	Pro 16275	Ser	Ser	Leu
Pro	Ser 16280	Pro	Thr	Ser	Ala	Gly 16285	Pro	Leu	Leu	Val	Pro 16290	Phe	Thr	Leu
Asn	Phe 16295	Thr	Ile	Thr	Asn	Leu 16300	Gln	Tyr	Glu	Glu	Asp 16305	Met	His	His
Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly

16310

Leu	Leu	Gly	Pro	Met	Phe	Lys	Asn	Thr	Ser	Val	Gly	Leu	Leu	Tyr
16325						16330					16335			
Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro	Glu	Lys	Asn	Gly	Ala
16340						16345					16350			
Ala	Thr	Gly	Met	Asp	Ala	Ile	Cys	Thr	His	Arg	Leu	Asp	Pro	Lys
16355						16360					16365			
Ser	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu	Tyr	Trp	Glu	Leu	Ser	Xaa
16370						16375					16380			
Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly	Pro	Tyr	Xaa	Leu	Asp	Arg
16385						16390					16395			
Xaa	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
16400						16405					16410			
Xaa	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Xaa	Val	Xaa	Leu	Xaa	Thr	Ser
16415						16420					16425			
Gly	Thr	Pro	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Thr	Xaa	Xaa	Xaa	Pro	Leu
16430						16435					16440			
Leu	Xaa	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Xaa	Tyr
16445						16450					16455			
Glu	Glu	Xaa	Met	Xaa	Xaa	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr
16460						16465					16470			
Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Lys	Pro	Leu	Phe	Arg	Asn	Ser
16475						16480					16485			
Ser	Leu	Glu	Tyr	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Ala	Ser	Leu	Arg
16490						16495					16500			
Pro	Glu	Lys	Asp	Ser	Ser	Ala	Met	Ala	Val	Asp	Ala	Ile	Cys	Thr
16505						16510					16515			
His	Arg	Pro	Asp	Pro	Glu	Asp	Leu	Gly	Leu	Asp	Arg	Glu	Arg	Leu
16520						16525					16530			
Tyr	Trp	Glu	Leu	Ser	Asn	Leu	Thr	Asn	Gly	Ile	Gln	Glu	Leu	Gly
16535						16540					16545			

Pro Tyr Thr Leu Asp Arg Asn Ser Leu Tyr Val Asn Gly Phe Thr
 16550 16555 16560
 His Arg Ser Ser Met Pro Thr Thr Ser Thr Pro Gly Thr Ser Thr
 16565 16570 16575
 Val Asp Val Gly Thr Ser Gly Thr Pro Ser Ser Ser Pro Ser Pro
 16580 16585 16590
 Thr Thr Ala Gly Pro Leu Leu Ile Pro Phe Thr Leu Asn Phe Thr
 16595 16600 16605
 Ile Thr Asn Leu Gln Tyr Gly Glu Asp Met Gly His Pro Gly Ser
 16610 16615 16620
 Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Gly
 16625 16630 16635
 Pro Ile Phe Lys Asn Thr Ser Val Gly Pro Leu Tyr Ser Gly Cys
 16640 16645 16650
 Arg Leu Thr Ser Leu Arg Ser Glu Lys Asp Gly Ala Ala Thr Gly
 16655 16660 16665
 Val Asp Ala Ile Cys Ile His His Leu Asp Pro Lys Ser Pro Gly
 16670 16675 16680
 Leu Asn Arg Glu Arg Leu Tyr Trp Glu Leu Ser Gln Leu Thr Asn
 16685 16690 16695
 Gly Ile Lys Glu Leu Gly Pro Tyr Thr Leu Asp Arg Asn Ser Leu
 16700 16705 16710
 Tyr Val Asn Gly Phe Thr His Arg Thr Ser Val Pro Thr Thr Ser
 16715 16720 16725
 Thr Pro Gly Thr Ser Thr Val Asp Leu Gly Thr Ser Gly Thr Pro
 16730 16735 16740
 Phe Ser Leu Pro Ser Pro Ala Thr Ala Gly Pro Leu Leu Val Leu
 16745 16750 16755
 Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Lys Tyr Glu Glu Asp
 16760 16765 16770
 Met His Arg Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val
 16775 16780 16785

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Leu	Gln	Thr	Leu	Leu	Gly	Pro	Met	Phe	Lys	Asn	Thr	Ser	Val	Gly
	16790					16795					16800			
Leu	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Ser	Glu	Lys
	16805					16810					16815			
Asp	Gly	Ala	Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys	Thr	His	Arg	Leu
	16820					16825					16830			
Asp	Pro	Lys	Ser	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu	Tyr	Trp	Glu
	16835					16840					16845			
Leu	Ser	Xaa	Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly	Pro	Tyr	Xaa
	16850					16855					16860			
Leu	Asp	Arg	Xaa	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Xaa	Xaa	Xaa	Xaa
	16865					16870					16875			
Xaa	Xaa	Xaa	Xaa	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Xaa	Val	Xaa	Leu
	16880					16885					16890			
Xaa	Thr	Ser	Gly	Thr	Pro	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Thr	Xaa	Xaa
	16895					16900					16905			
Xaa	Pro	Leu	Leu	Xaa	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn
	16910					16915					16920			
Leu	Xaa	Tyr	Glu	Glu	Xaa	Met	Xaa	Xaa	Pro	Gly	Ser	Arg	Lys	Phe
	16925					16930					16935			
Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Arg	Pro	Val	Phe
	16940					16945					16950			
Lys	Asn	Thr	Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr
	16955					16960					16965			
Leu	Leu	Arg	Pro	Lys	Lys	Asp	Gly	Ala	Ala	Thr	Lys	Val	Asp	Ala
	16970					16975					16980			
Ile	Cys	Thr	Tyr	Arg	Pro	Asp	Pro	Lys	Ser	Pro	Gly	Leu	Asp	Arg
	16985					16990					16995			
Glu	Gln	Leu	Tyr	Trp	Glu	Leu	Ser	Gln	Leu	Thr	His	Ser	Ile	Thr
	17000					17005					17010			
Glu	Leu	Gly	Pro	Tyr	Thr	Gln	Asp	Arg	Asp	Ser	Leu	Tyr	Val	Asn
	17015					17020					17025			

Gly Phe Thr His Arg Ser Ser Val Pro Thr Thr Ser Ile Pro Gly
 17030 17035 17040
 Thr Ser Ala Val His Leu Glu Thr Thr Gly Thr Pro Ser Ser Phe
 17045 17050 17055
 Pro Gly His Thr Glu Pro Gly Pro Leu Leu Ile Pro Phe Thr Phe
 17060 17065 17070
 Asn Phe Thr Ile Thr Asn Leu Arg Tyr Glu Glu Asn Met Gln His
 17075 17080 17085
 Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val Leu Gln Gly
 17090 17095 17100
 Leu Leu Thr Pro Leu Phe Lys Asn Thr Ser Val Gly Pro Leu Tyr
 17105 17110 17115
 Ser Gly Cys Arg Leu Thr Leu Leu Arg Pro Glu Lys Gln Glu Ala
 17120 17125 17130
 Ala Thr Gly Val Asp Thr Ile Cys Thr His Arg Val Asp Pro Ile
 17135 17140 17145
 Gly Pro Gly Leu Asp Arg Glu Arg Leu Tyr Trp Glu Leu Ser Gln
 17150 17155 17160
 Leu Thr Asn Ser Ile Thr Glu Leu Gly Pro Tyr Thr Leu Asp Arg
 17165 17170 17175
 Asp Ser Leu Tyr Val Asp Gly Phe Asn Pro Trp Ser Ser Val Pro
 17180 17185 17190
 Thr Thr Ser Thr Pro Gly Thr Ser Thr Val His Leu Ala Thr Ser
 17195 17200 17205
 Gly Thr Pro Ser Pro Leu Pro Gly His Thr Ala Pro Val Pro Leu
 17210 17215 17220
 Leu Ile Pro Phe Thr Leu Asn Phe Thr Ile Thr Asp Leu His Tyr
 17225 17230 17235
 Glu Glu Asn Met Gln His Pro Gly Ser Arg Lys Phe Asn Thr Thr
 17240 17245 17250
 Glu Arg Val Leu Gln Gly Leu Leu Lys Pro Leu Phe Lys Ser Thr

17255

Ser Val 17270	Gly Pro Leu Tyr	Ser 17275	Gly Cys Arg Leu	Thr 17280	Leu Leu Arg
Pro Glu 17285	Lys His Gly Ala	Ala 17290	Thr Gly Val Asp	Ala 17295	Ile Cys Thr
Leu Arg 17300	Leu Asp Pro Thr	Gly 17305	Pro Gly Leu Asp	Arg 17310	Glu Arg Leu
Tyr Trp 17315	Glu Leu Ser Gln	Leu 17320	Thr Asn Ser Ile	Thr 17325	Glu Leu Gly
Pro Tyr 17330	Thr Leu Asp Arg	Asp 17335	Ser Leu Tyr Val	Asn 17340	Gly Phe Asn
Pro Trp 17345	Ser Ser Val Pro	Thr 17350	Thr Ser Thr Pro	Gly 17355	Thr Ser Thr
Val His 17360	Leu Ala Thr Ser	Gly 17365	Thr Pro Ser Ser	Leu 17370	Pro Gly His
Thr Thr 17375	Ala Gly Pro Leu	Leu 17380	Val Pro Phe Thr	Leu 17385	Asn Phe Thr
Ile Thr 17390	Asn Leu Lys Tyr	Glu 17395	Glu Asp Met His	Cys 17400	Pro Gly Ser
Arg Lys 17405	Phe Asn Thr Thr	Glu 17410	Arg Val Leu Gln	Ser 17415	Leu His Gly
Pro Met 17420	Phe Lys Asn Thr	Ser 17425	Val Gly Pro Leu	Tyr 17430	Ser Gly Cys
Arg Leu 17435	Thr Leu Leu Arg	Ser 17440	Glu Lys Asp Gly	Ala 17445	Ala Thr Gly
Val Asp 17450	Ala Ile Cys Thr	His 17455	Arg Leu Asp Pro	Lys 17460	Ser Pro Gly
Leu Asp 17465	Arg Glu Xaa Leu	Tyr 17470	Trp Glu Leu Ser	Xaa 17475	Leu Thr Xaa
Xaa Ile 17480	Xaa Glu Leu Gly	Pro 17485	Tyr Xaa Leu Asp	Arg 17490	Xaa Ser Leu

Tyr Val Asn Gly Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Thr Ser
 17495 17500 17505
 Thr Pro Gly Thr Ser Xaa Val Xaa Leu Xaa Thr Ser Gly Thr Pro
 17510 17515 17520
 Xaa Xaa Xaa Pro Xaa Xaa Thr Xaa Xaa Xaa Pro Leu Leu Xaa Pro
 17525 17530 17535
 Phe Thr Leu Asn Phe Thr Ile Thr Asn Leu Xaa Tyr Glu Glu Xaa
 17540 17545 17550
 Met Xaa Xaa Pro Gly Ser Arg Lys Phe Asn Thr Thr Glu Arg Val
 17555 17560 17565
 Leu Gln Gly Leu Leu Xaa Pro Xaa Phe Lys Xaa Thr Ser Val Gly
 17570 17575 17580
 Xaa Leu Tyr Ser Gly Cys Arg Leu Thr Leu Leu Arg Xaa Glu Lys
 17585 17590 17595
 Xaa Xaa Ala Ala Thr Xaa Val Asp Xaa Xaa Cys Xaa Xaa Xaa Xaa
 17600 17605 17610
 Asp Pro Xaa Xaa Pro Gly Leu Asp Arg Glu Xaa Leu Tyr Trp Glu
 17615 17620 17625
 Leu Ser Xaa Leu Thr Asn Ser Ile Thr Glu Leu Gly Pro Tyr Thr
 17630 17635 17640
 Leu Asp Arg Asp Ser Leu Tyr Val Asn Gly Phe Thr His Arg Ser
 17645 17650 17655
 Ser Met Pro Thr Thr Ser Ile Pro Gly Thr Ser Ala Val His Leu
 17660 17665 17670
 Glu Thr Ser Gly Thr Pro Ala Ser Leu Pro Gly His Thr Ala Pro
 17675 17680 17685
 Gly Pro Leu Leu Val Pro Phe Thr Leu Asn Phe Thr Ile Thr Asn
 17690 17695 17700
 Leu Gln Tyr Glu Glu Asp Met Arg His Pro Gly Ser Arg Lys Phe
 17705 17710 17715
 Asn Thr Thr Glu Arg Val Leu Gln Gly Leu Leu Lys Pro Leu Phe
 17720 17725 17730

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Lys	Ser	Thr	Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr
	17735					17740					17745			
Leu	Leu	Arg	Pro	Glu	Lys	Arg	Gly	Ala	Ala	Thr	Gly	Val	Asp	Thr
	17750					17755					17760			
Ile	Cys	Thr	His	Arg	Leu	Asp	Pro	Leu	Asn	Pro	Gly	Leu	Asp	Arg
	17765					17770					17775			
Glu	Xaa	Leu	Tyr	Trp	Glu	Leu	Ser	Xaa	Leu	Thr	Xaa	Xaa	Ile	Xaa
	17780					17785					17790			
Glu	Leu	Gly	Pro	Tyr	Xaa	Leu	Asp	Arg	Xaa	Ser	Leu	Tyr	Val	Asn
	17795					17800					17805			
Gly	Phe	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Thr	Ser	Thr	Pro	Gly
	17810					17815					17820			
Thr	Ser	Xaa	Val	Xaa	Leu	Xaa	Thr	Ser	Gly	Thr	Pro	Xaa	Xaa	Xaa
	17825					17830					17835			
Pro	Xaa	Xaa	Thr	Xaa	Xaa	Xaa	Pro	Leu	Leu	Xaa	Pro	Phe	Thr	Leu
	17840					17845					17850			
Asn	Phe	Thr	Ile	Thr	Asn	Leu	Xaa	Tyr	Glu	Glu	Xaa	Met	Xaa	Xaa
	17855					17860					17865			
Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly
	17870					17875					17880			
Leu	Leu	Xaa	Pro	Xaa	Phe	Lys	Xaa	Thr	Ser	Val	Gly	Xaa	Leu	Tyr
	17885					17890					17895			
Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Xaa	Glu	Lys	Xaa	Xaa	Ala
	17900					17905					17910			
Ala	Thr	Xaa	Val	Asp	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Asp	Pro	Xaa
	17915					17920					17925			
Xaa	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu	Tyr	Trp	Glu	Leu	Ser	Xaa
	17930					17935					17940			
Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly	Pro	Tyr	Xaa	Leu	Asp	Arg
	17945					17950					17955			
Xaa	Ser	Leu	Tyr	Val	Asn	Gly	Phe	His	Pro	Arg	Ser	Ser	Val	Pro
	17960					17965					17970			

Thr	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Thr	Val	His	Leu	Ala	Thr	Ser
	17975					17980					17985			
Gly	Thr	Pro	Ser	Ser	Leu	Pro	Gly	His	Thr	Ala	Pro	Val	Pro	Leu
	17990					17995					18000			
Leu	Ile	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	His	Tyr
	18005					18010					18015			
Glu	Glu	Asn	Met	Gln	His	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr
	18020					18025					18030			
Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Gly	Pro	Met	Phe	Lys	Asn	Thr
	18035					18040					18045			
Ser	Val	Gly	Leu	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg
	18050					18055					18060			
Pro	Glu	Lys	Asn	Gly	Ala	Ala	Thr	Gly	Met	Asp	Ala	Ile	Cys	Ser
	18065					18070					18075			
His	Arg	Leu	Asp	Pro	Lys	Ser	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu
	18080					18085					18090			
Tyr	Trp	Glu	Leu	Ser	Xaa	Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly
	18095					18100					18105			
Pro	Tyr	Xaa	Leu	Asp	Arg	Xaa	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Xaa
	18110					18115					18120			
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Xaa
	18125					18130					18135			
Val	Xaa	Leu	Xaa	Thr	Ser	Gly	Thr	Pro	Xaa	Xaa	Xaa	Pro	Xaa	Xaa
	18140					18145					18150			
Thr	Xaa	Xaa	Xaa	Pro	Leu	Leu	Xaa	Pro	Phe	Thr	Leu	Asn	Phe	Thr
	18155					18160					18165			
Ile	Thr	Asn	Leu	Xaa	Tyr	Glu	Glu	Xaa	Met	Xaa	Xaa	Pro	Gly	Ser
	18170					18175					18180			
Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Xaa
	18185					18190					18195			
Pro	Xaa	Phe	Lys	Xaa	Thr	Ser	Val	Gly	Xaa	Leu	Tyr	Ser	Gly	Cys

18200

Arg	Leu	Thr	Leu	Leu	Arg	Xaa	Glu	Lys	Xaa	Xaa	Ala	Ala	Thr	Xaa
18215						18220					18225			
Val	Asp	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Asp	Pro	Xaa	Xaa	Pro	Gly
18230						18235					18240			
Leu	Asp	Arg	Glu	Xaa	Leu	Tyr	Trp	Glu	Leu	Ser	Xaa	Leu	Thr	Xaa
18245						18250					18255			
Xaa	Ile	Xaa	Glu	Leu	Gly	Pro	Tyr	Xaa	Leu	Asp	Arg	Xaa	Ser	Leu
18260						18265					18270			
Tyr	Val	Asn	Gly	Phe	Thr	His	Gln	Asn	Ser	Val	Pro	Thr	Thr	Ser
18275						18280					18285			
Thr	Pro	Gly	Thr	Ser	Thr	Val	Tyr	Trp	Ala	Thr	Thr	Gly	Thr	Pro
18290						18295					18300			
Ser	Ser	Phe	Pro	Gly	His	Thr	Glu	Pro	Gly	Pro	Leu	Leu	Ile	Pro
18305						18310					18315			
Phe	Thr	Phe	Asn	Phe	Thr	Ile	Thr	Asn	Leu	His	Tyr	Glu	Glu	Asn
18320						18325					18330			
Met	Gln	His	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val
18335						18340					18345			
Leu	Gln	Gly	Leu	Leu	Thr	Pro	Leu	Phe	Lys	Asn	Thr	Ser	Val	Gly
18350						18355					18360			
Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro	Glu	Lys
18365						18370					18375			
Gln	Glu	Ala	Ala	Thr	Gly	Val	Asp	Thr	Ile	Cys	Thr	His	Arg	Val
18380						18385					18390			
Asp	Pro	Ile	Gly	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu	Tyr	Trp	Glu
18395						18400					18405			
Leu	Ser	Xaa	Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly	Pro	Tyr	Xaa
18410						18415					18420			
Leu	Asp	Arg	Xaa	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Xaa	Xaa	Xaa	Xaa
18425						18430					18435			

Xaa	Xaa	Xaa	Xaa	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Xaa	Val	Xaa	Leu
18440						18445					18450			
Xaa	Thr	Ser	Gly	Thr	Pro	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Thr	Xaa	Xaa
18455						18460					18465			
Xaa	Pro	Leu	Leu	Xaa	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn
18470						18475					18480			
Leu	Xaa	Tyr	Glu	Glu	Xaa	Met	Xaa	Xaa	Pro	Gly	Ser	Arg	Lys	Phe
18485						18490					18495			
Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Xaa	Pro	Xaa	Phe
18500						18505					18510			
Lys	Xaa	Thr	Ser	Val	Gly	Xaa	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr
18515						18520					18525			
Leu	Leu	Arg	Xaa	Glu	Lys	Xaa	Xaa	Ala	Ala	Thr	Xaa	Val	Asp	Xaa
18530						18535					18540			
Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Asp	Pro	Xaa	Xaa	Pro	Gly	Leu	Asp	Arg
18545						18550					18555			
Glu	Xaa	Leu	Tyr	Trp	Glu	Leu	Ser	Xaa	Leu	Thr	Xaa	Xaa	Ile	Xaa
18560						18565					18570			
Glu	Leu	Gly	Pro	Tyr	Xaa	Leu	Asp	Arg	Xaa	Ser	Leu	Tyr	Val	Asn
18575						18580					18585			
Gly	Phe	Thr	His	Arg	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ser	Pro	Gly
18590						18595					18600			
Thr	Ser	Thr	Val	His	Leu	Ala	Thr	Ser	Gly	Thr	Pro	Ser	Ser	Leu
18605						18610					18615			
Pro	Gly	His	Thr	Ala	Pro	Val	Pro	Leu	Leu	Ile	Pro	Phe	Thr	Leu
18620						18625					18630			
Asn	Phe	Thr	Ile	Thr	Asn	Leu	His	Tyr	Glu	Glu	Asn	Met	Gln	His
18635						18640					18645			
Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly
18650						18655					18660			
Leu	Leu	Lys	Pro	Leu	Phe	Lys	Ser	Thr	Ser	Val	Gly	Pro	Leu	Tyr
18665						18670					18675			

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Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Pro	Glu	Lys	His	Gly	Ala
	18680					18685					18690			
Ala	Thr	Gly	Val	Asp	Ala	Ile	Cys	Thr	Leu	Arg	Leu	Asp	Pro	Thr
	18695					18700					18705			
Gly	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu	Tyr	Trp	Glu	Leu	Ser	Xaa
	18710					18715					18720			
Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly	Pro	Tyr	Xaa	Leu	Asp	Arg
	18725					18730					18735			
Xaa	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	18740					18745					18750			
Xaa	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Xaa	Val	Xaa	Leu	Xaa	Thr	Ser
	18755					18760					18765			
Gly	Thr	Pro	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Thr	Xaa	Xaa	Xaa	Pro	Leu
	18770					18775					18780			
Leu	Xaa	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Xaa	Tyr
	18785					18790					18795			
Glu	Glu	Xaa	Met	Xaa	Xaa	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr
	18800					18805					18810			
Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Xaa	Pro	Xaa	Phe	Lys	Xaa	Thr
	18815					18820					18825			
Ser	Val	Gly	Xaa	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg
	18830					18835					18840			
Xaa	Glu	Lys	Xaa	Xaa	Ala	Ala	Thr	Xaa	Val	Asp	Xaa	Xaa	Cys	Xaa
	18845					18850					18855			
Xaa	Xaa	Xaa	Asp	Pro	Xaa	Xaa	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu
	18860					18865					18870			
Tyr	Trp	Glu	Leu	Ser	Xaa	Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly
	18875					18880					18885			
Pro	Tyr	Xaa	Leu	Asp	Arg	Xaa	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr
	18890					18895					18900			
His	Arg	Thr	Ser	Val	Pro	Thr	Thr	Ser	Thr	Pro	Gly	Thr	Ser	Thr
	18905					18910					18915			

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Val	His	Leu	Ala	Thr	Ser	Gly	Thr	Pro	Ser	Ser	Leu	Pro	Gly	His
	18920					18925					18930			
Thr	Ala	Pro	Val	Pro	Leu	Leu	Ile	Pro	Phe	Thr	Leu	Asn	Phe	Thr
	18935					18940					18945			
Ile	Thr	Asn	Leu	Gln	Tyr	Glu	Glu	Asp	Met	His	Arg	Pro	Gly	Ser
	18950					18955					18960			
Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Ser
	18965					18970					18975			
Pro	Ile	Phe	Lys	Asn	Ser	Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys
	18980					18985					18990			
Arg	Leu	Thr	Ser	Leu	Arg	Pro	Glu	Lys	Asp	Gly	Ala	Ala	Thr	Gly
	18995					19000					19005			
Met	Asp	Ala	Val	Cys	Leu	Tyr	His	Pro	Asn	Pro	Lys	Arg	Pro	Gly
	19010					19015					19020			
Leu	Asp	Arg	Glu	Gln	Leu	Tyr	Cys	Glu	Leu	Ser	Gln	Leu	Thr	His
	19025					19030					19035			
Asn	Ile	Thr	Glu	Leu	Gly	Pro	Tyr	Ser	Leu	Asp	Arg	Asp	Ser	Leu
	19040					19045					19050			
Tyr	Val	Asn	Gly	Phe	Thr	His	Gln	Asn	Ser	Val	Pro	Thr	Thr	Ser
	19055					19060					19065			
Thr	Pro	Gly	Thr	Ser	Thr	Val	Tyr	Trp	Ala	Thr	Thr	Gly	Thr	Pro
	19070					19075					19080			
Ser	Ser	Phe	Pro	Gly	His	Thr	Xaa	Xaa	Xaa	Pro	Leu	Leu	Xaa	Pro
	19085					19090					19095			
Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Xaa	Tyr	Glu	Glu	Xaa
	19100					19105					19110			
Met	Xaa	Xaa	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val
	19115					19120					19125			
Leu	Gln	Gly	Leu	Leu	Xaa	Pro	Xaa	Phe	Lys	Xaa	Thr	Ser	Val	Gly
	19130					19135					19140			
Xaa	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Xaa	Glu	Lys

19145

Xaa	Xaa	Ala	Ala	Thr	Xaa	Val	Asp	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa
19160						19165					19170			
Asp	Pro	Xaa	Xaa	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu	Tyr	Trp	Glu
19175						19180					19185			
Leu	Ser	Xaa	Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly	Pro	Tyr	Xaa
19190						19195					19200			
Leu	Asp	Arg	Xaa	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Trp	Ser
19205						19210					19215			
Ser	Gly	Leu	Thr	Thr	Ser	Thr	Pro	Trp	Thr	Ser	Thr	Val	Asp	Leu
19220						19225					19230			
Gly	Thr	Ser	Gly	Thr	Pro	Ser	Pro	Val	Pro	Ser	Pro	Thr	Thr	Ala
19235						19240					19245			
Gly	Pro	Leu	Leu	Val	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn
19250						19255					19260			
Leu	Gln	Tyr	Glu	Glu	Asp	Met	His	Arg	Pro	Gly	Ser	Arg	Lys	Phe
19265						19270					19275			
Asn	Ala	Thr	Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Ser	Pro	Ile	Phe
19280						19285					19290			
Lys	Asn	Thr	Ser	Val	Gly	Pro	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr
19295						19300					19305			
Leu	Leu	Arg	Pro	Glu	Lys	Gln	Glu	Ala	Ala	Thr	Gly	Val	Asp	Thr
19310						19315					19320			
Ile	Cys	Thr	His	Arg	Val	Asp	Pro	Ile	Gly	Pro	Gly	Leu	Asp	Arg
19325						19330					19335			
Glu	Xaa	Leu	Tyr	Trp	Glu	Leu	Ser	Xaa	Leu	Thr	Xaa	Xaa	Ile	Xaa
19340						19345					19350			
Glu	Leu	Gly	Pro	Tyr	Xaa	Leu	Asp	Arg	Xaa	Ser	Leu	Tyr	Val	Asn
19355						19360					19365			
Gly	Phe	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Thr	Ser	Thr	Pro	Gly
19370						19375					19380			

Thr	Ser	Xaa	Val	Xaa	Leu	Xaa	Thr	Ser	Gly	Thr	Pro	Xaa	Xaa	Xaa
19385						19390					19395			
Pro	Xaa	Xaa	Thr	Xaa	Xaa	Xaa	Pro	Leu	Leu	Xaa	Pro	Phe	Thr	Leu
19400						19405					19410			
Asn	Phe	Thr	Ile	Thr	Asn	Leu	Xaa	Tyr	Glu	Glu	Xaa	Met	Xaa	Xaa
19415						19420					19425			
Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr	Glu	Arg	Val	Leu	Gln	Gly
19430						19435					19440			
Leu	Leu	Xaa	Pro	Xaa	Phe	Lys	Xaa	Thr	Ser	Val	Gly	Xaa	Leu	Tyr
19445						19450					19455			
Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg	Xaa	Glu	Lys	Xaa	Xaa	Ala
19460						19465					19470			
Ala	Thr	Xaa	Val	Asp	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Asp	Pro	Xaa
19475						19480					19485			
Xaa	Pro	Gly	Leu	Asp	Arg	Glu	Xaa	Leu	Tyr	Trp	Glu	Leu	Ser	Xaa
19490						19495					19500			
Leu	Thr	Xaa	Xaa	Ile	Xaa	Glu	Leu	Gly	Pro	Tyr	Xaa	Leu	Asp	Arg
19505						19510					19515			
Xaa	Ser	Leu	Tyr	Val	Asn	Gly	Phe	Thr	His	Arg	Ser	Phe	Gly	Leu
19520						19525					19530			
Thr	Thr	Ser	Thr	Pro	Trp	Thr	Ser	Thr	Val	Asp	Leu	Gly	Thr	Ser
19535						19540					19545			
Gly	Thr	Pro	Ser	Pro	Val	Pro	Ser	Pro	Thr	Thr	Ala	Gly	Pro	Leu
19550						19555					19560			
Leu	Val	Pro	Phe	Thr	Leu	Asn	Phe	Thr	Ile	Thr	Asn	Leu	Gln	Tyr
19565						19570					19575			
Glu	Glu	Asp	Met	His	Arg	Pro	Gly	Ser	Arg	Lys	Phe	Asn	Thr	Thr
19580						19585					19590			
Glu	Arg	Val	Leu	Gln	Gly	Leu	Leu	Thr	Pro	Leu	Phe	Arg	Asn	Thr
19595						19600					19605			
Ser	Val	Ser	Ser	Leu	Tyr	Ser	Gly	Cys	Arg	Leu	Thr	Leu	Leu	Arg
19610						19615					19620			

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Pro	Glu 19625	Lys	Asp	Gly	Ala	Ala 19630	Thr	Arg	Val	Asp	Ala 19635	Val	Cys	Thr
His	Arg 19640	Pro	Asp	Pro	Lys	Ser 19645	Pro	Gly	Leu	Asp	Arg 19650	Glu	Xaa	Leu
Tyr	Trp 19655	Glu	Leu	Ser	Xaa	Leu 19660	Thr	Xaa	Xaa	Ile	Xaa 19665	Glu	Leu	Gly
Pro	Tyr 19670	Xaa	Leu	Asp	Arg	Xaa 19675	Ser	Leu	Tyr	Val	Asn 19680	Gly	Phe	Xaa
Xaa	Xaa 19685	Xaa	Xaa	Xaa	Xaa	Xaa 19690	Thr	Ser	Thr	Pro	Gly 19695	Thr	Ser	Xaa
Val	Xaa 19700	Leu	Xaa	Thr	Ser	Gly 19705	Thr	Pro	Xaa	Xaa	Xaa 19710	Pro	Xaa	Xaa
Thr	Xaa 19715	Xaa	Xaa	Pro	Leu	Leu 19720	Xaa	Pro	Phe	Thr	Leu 19725	Asn	Phe	Thr
Ile	Thr 19730	Asn	Leu	Xaa	Tyr	Glu 19735	Glu	Xaa	Met	Xaa	Xaa 19740	Pro	Gly	Ser
Arg	Lys 19745	Phe	Asn	Thr	Thr	Glu 19750	Arg	Val	Leu	Gln	Gly 19755	Leu	Leu	Xaa
Pro	Xaa 19760	Phe	Lys	Xaa	Thr	Ser 19765	Val	Gly	Xaa	Leu	Tyr 19770	Ser	Gly	Cys
Arg	Leu 19775	Thr	Leu	Leu	Arg	Xaa 19780	Glu	Lys	Xaa	Xaa	Ala 19785	Ala	Thr	Xaa
Val	Asp 19790	Xaa	Xaa	Cys	Xaa	Xaa 19795	Xaa	Xaa	Asp	Pro	Xaa 19800	Xaa	Pro	Gly
Leu	Asp 19805	Arg	Glu	Xaa	Leu	Tyr 19810	Trp	Glu	Leu	Ser	Xaa 19815	Leu	Thr	Xaa
Xaa	Ile 19820	Xaa	Glu	Leu	Gly	Pro 19825	Tyr	Xaa	Leu	Asp	Arg 19830	Xaa	Ser	Leu
Tyr	Val 19835	Asn	Gly	Phe	Thr	His 19840	Trp	Ile	Pro	Val	Pro 19845	Thr	Ser	Ser
Thr	Pro 19850	Gly	Thr	Ser	Thr	Val 19855	Asp	Leu	Gly	Ser	Gly 19860	Thr	Pro	Ser

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	19895					19900					19905			
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	19925					19930					19935			
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	19940					19945					19950			
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	20075					20080					20085			
Leu	Arg	Xaa	Glu	Lys	Xaa	Xaa	Ala	Ala	Thr	Xaa	Val	Asp	Xaa	Xaa

20090

Cys	Xaa	Xaa	Xaa	Xaa	Asp	Pro	Xaa	Xaa	Pro	Gly	Leu	Asp	Arg	Glu
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	20540					20545					20550			
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Ile Ile 20600	Glu Leu Gly Pro	Tyr 20605	Leu Leu Asp Arg	Gly 20610	Ser Leu Tyr
Val Asn 20615	Gly Phe Thr His	Arg 20620	Asn Phe Val Pro	Ile 20625	Thr Ser Thr
Pro Gly 20630	Thr Ser Thr Val	His 20635	Leu Gly Thr Ser	Glu 20640	Thr Pro Ser
Ser Leu 20645	Pro Arg Pro Ile	Val 20650	Pro Gly Pro Leu	Leu 20655	Val Pro Phe
Thr Leu 20660	Asn Phe Thr Ile	Thr 20665	Asn Leu Gln Tyr	Glu 20670	Glu Ala Met
Arg His 20675	Pro Gly Ser Arg	Lys 20680	Phe Asn Thr Thr	Glu 20685	Arg Val Leu
Gln Gly 20690	Leu Leu Arg Pro	Leu 20695	Phe Lys Asn Thr	Ser 20700	Ile Gly Pro
Leu Tyr 20705	Ser Ser Cys Arg	Leu 20710	Thr Leu Leu Arg	Pro 20715	Glu Lys Asp
Lys Ala 20720	Ala Thr Arg Val	Asp 20725	Ala Ile Cys Thr	His 20730	His Pro Asp
Pro Gln 20735	Ser Pro Gly Leu	Asn 20740	Arg Glu Gln Leu	Tyr 20745	Trp Glu Leu
Ser Gln 20750	Leu Thr His Gly	Ile 20755	Thr Glu Leu Gly	Pro 20760	Tyr Thr Leu
Asp Arg 20765	Asp Ser Leu Tyr	Val 20770	Asp Gly Phe Thr	His 20775	Trp Ser Pro
Ile Pro 20780	Thr Thr Ser Thr	Pro 20785	Gly Thr Ser Ile	Val 20790	Asn Leu Gly
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	20840					20845					20850			
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	20855					20860					20865			
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Cys	Thr	His	Arg	Pro	Asp	Pro	Lys	Ile	Pro	Gly	Leu	Asp	Arg	Gln
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	21080					21085					21090			
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